

Open Letter to the *Guardian* Management. Why are you supporting the pesticides industry and GM crops?

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When Roundup poisoned our nature reserve in 2013, I wrote to Alan Rusbridger to suggest that the *Guardian* should expose the pesticides industry. I said that chemicals in the environment would destroy the world before global warming. In 2017, independent US scientists confirmed this.

In December 2017, independent scientists in the US sound alarm over global mass poisoning¹
Multiple papers flag serious issues with chemical regulation and public health failure. Almost every human being is now contaminated in a worldwide flood of industrial chemicals and pollutants – most of which have never been tested for safety – a leading scientific journal has warned. Regulation and legal protection for today's citizens from chemical poisons can no longer assure our health and safety, according to a hard-hitting report in the journal PLOS Biology, titled "Challenges in Environmental Health: Closing the Gap between Evidence and Regulations". The report describes a chemical oversight system corrupted from its outset in the 1970s when 60,000 chemicals were registered for use in the US, mostly without being safety tested. Many of these chemicals were subsequently adopted as 'safe' around the world. Over the years, public health protection has stagnated – despite mounting scientific evidence that many chemicals are damaging whole classes of organisms, say report editors Liza Gross and Linda Birnbaum. "Evidence has emerged that chemicals in widespread use can cause cancer and other chronic diseases, damage reproductive systems, and harm developing brains at low levels of exposure once believed to be harmless. Such exposures pose unique risks to children at critical windows of development - risks that existing regulations fail to consider."

December 17 2018, the *Guardian* is reported to be the 'most trusted newspaper in Britain'
 According to industry figures released on December 17 2018, the *Guardian* is the most trusted newspaper in Britain as well as being the most read quality news outlet, and the most popular quality news outlet among younger readers.² "This fantastic set of results demonstrates the *Guardian's* unique position in the media," said the editor-in-chief, Katharine Viner. "We see consistently high

¹ <https://cosmosmagazine.com/chemistry/major-journal-sounds-alarm-over-global-mass-poisoning>

² <https://www.theguardian.com/media/2018/dec/17/guardian-most-trusted-newspaper-in-britain-says-industry-report>

scores for trust and engagement from both our digital and print readers, and it is excellent news that the Guardian resonates so strongly with younger audiences, too.”

In March 2015, Katharine Viner won a majority in the ballot of *Guardian* and *Observer* editorial staff as the favoured successor of [Alan Rusbridger](#) as *The Guardian's* editor-in-chief. Viner received 53% of first-choice votes from the 964 staff who participated, and was thus shortlisted for selection to replace Alan Rusbridger.³ She started on June 1st 2015. In July 2015, I sent her copies of the photo-journals of our small nature reserve in 2010, that we had established in 2006, *Speckled Bush Crickets* and *The Year of the Bumblebee*. I told her that Roundup had poisoned our nature reserve in 2013. She never acknowledged them. (Bernhard Url of EFSA, and Michael Fluh of the European Commission did not acknowledge them either). In fact, Viner and the *Observer* Editor-in-Chief John Mulholland never once replied to me over a period of 3 years.

Weedkiller found in 43 out of 45 popular breakfast cereals marketed for US children

A short piece was published in the *Guardian* on 15th August 2018. “Significant levels of the weedkilling chemical glyphosate have been found in an array of popular breakfast cereals, oats and snack bars marketed to US children, a new study has found.⁴ Tests revealed glyphosate, the active ingredient in the popular weedkiller brand Roundup, present in all but two of the 45 oat-derived products **that were sampled by the Environmental Working Group**, a public health organization. Nearly three in four of the products exceeded what the EWG classes safe for children to consume. Products with some of the highest levels of glyphosate include granola, oats and snack bars made by leading industry names Quaker, Kellogg’s and General Mills, which makes Cheerios. In April, internal emails obtained from the Food and Drug Administration (FDA) **showed** that scientists have found glyphosate on a wide range of commonly consumed food, to the point that they were finding it difficult to identify a food without the chemical on it. The FDA has yet to release any official results from this process. **The UK Guardian reported:** “There was no indication that the claims related to products sold outside the US.”

To test this claim by the *Guardian*, we sent samples of four oat-based breakfast cereals marketed for children in the UK to the Health Research Institute, Fairfield, Iowa, an accredited laboratory for glyphosate testing. The Director said the levels of weedkiller were shockingly high.

Dr Fagan said: “These results are consistently concerning. The levels consumed in a single daily helping of any one of these cereals, even the one with the lowest level of contamination, is sufficient to put the person’s glyphosate levels above the levels that cause fatty liver disease in rats (and likely in people).

Type of breakfast cereal marketed for children Product description	Glyphosate level ng/g	AMPA ng/g	Effective glyphosate level ng/g
Kelloggs No added sugar granola with Apricot & pumpkin seeds	499.90	ND	499.90
Quaker/Oat So simple/Original Microwaveable Oats	464.23	24.04	500.28
Weetibix Oatibix 100% wholegrain oats	318.85	16.96	344.28
Nestle Multigrain Cheerios Whole Grain Oat Flour 29.6% Whole Grain Wheat 29.6% Whole Grain Barley Flour 17.9% Whole Grain Corn Flour 2.1% Whole Grain Rice Flour 2.1%.	137.29	ND	137.29

We sent the results to the Editor of *Guardian* Letters, Paul Chadwick, so that the public could be informed. It was never published. However, the *Daily Mail* did report it.⁵

³ <https://www.theguardian.com/media/2015/mar/05/katharine-viner-wins-staff-ballot-for-guardian-editor>

⁴ <https://www.theguardian.com/environment/2018/aug/16/weedkiller-cereal-monsanto-roundup-childrens-food>

⁵ <https://www.dailymail.co.uk/health/article-6315209/Revealed-UK-cereals-contain-potentially-harmful-amounts-WEEDKILLER.html>

UN Rapporteur: Report of the Special Rapporteur on the right to food: Pesticides are “global human rights concern” and UN experts urge new treaty⁶

The United Nations received a [report](#) by the Special Rapporteur on the right to food, presented to the United Nations Human Rights Council, focused more narrowly on agricultural chemicals. The UN report states unequivocally that the storyline perpetuated by companies like Monsanto—the one that says we need pesticides to feed the world—is a myth.⁷ The Report presented to the UN human rights council on 08/03/2017, is severely critical of the global corporations that manufacture pesticides, accusing them of the “*systematic denial of harms*”, “*aggressive, unethical marketing tactics*” and heavy lobbying of governments which has “*obstructed reforms and paralysed global pesticide restrictions*”.

The Guardian US and the Guardian UK is sponsored by the Bill and Melinda Gates Foundation

US Guardian Editor said: “Support from the Bill & Melinda Gates Foundation will allow Guardian US to expand and deepen its coverage of homelessness through reporting and investigations, interactives, films and deep engagement with readers and viewers. **Guardian US editor, Lee Glendinning**, said: “At Guardian US, we’re committed to reporting on some of the most prevalent and troubling issues that face America every day, such as the homelessness crisis. This kind of journalism can often leave readers wanting to find ways they can do something to help, and we’re so pleased this ground-breaking partnership with the Bill & Melinda Gates Foundation will allow us to experiment with new ways in which our journalism can motivate our community to take action.”⁸

Global Justice: “Should Bill Gates be setting the global agenda for health and agriculture?”⁹

The Corporations (the Agrochemical Industry and the Pharmaceutical Industry) that the Gates Foundation funds and works closely with are those present at the Bilderberg Meetings whose objectives are to control the world. Monsanto, Cargill, Syngenta, DuPont, Bayer, Nestle, Mondelez and Mars are among the Corporations. “The foundation is also pushing GM research in the UK. In 2012, a team of British plant scientists at the John Innes Centre in Norwich won a \$10 million grant to develop GM cereal crops; this was one of the largest single investments in GM in the UK... The Swindon-based Biotechnology and Biological Sciences Research Council, which also promotes GM research, received an \$8 million grant in 2010 to “support high quality research on sustainable crop production in sub-Saharan Africa and South Asia... In June 2014, the BMGF gave \$5.6 million to another major GM developer and advocate, Cornell University, “to support a global agricultural communications platform that will improve understanding of science-based agricultural technologies”.

Global Justice Now reports that BMGF has an overwhelming focus on vaccines and GM technology. Bill Gates: “Donor countries, you must increase your investment in vaccines and immunization, even though you are coping with budget crises... All 193-member states, you must make vaccines a central focus of your health systems”

Bill Gates and David Rockefeller met to discuss the problems of over population¹⁰

Paul Harris in New York reports on the small, elite group of billionaire philanthropists who met recently to discuss solving the planet's problems. “It is the most elite club in the world. Ordinary people need not apply. Indeed, there is no way to ask to join. You simply have to be very, very rich and very, very generous. On a global scale. This is the Good Club, the name given to the tiny global elite of billionaire philanthropists who recently held their first and highly secretive meeting in the heart of [New York](#) City. The names of some of the members are familiar figures: Bill Gates, George

⁶ <http://www.pan-uk.org/site/wp-content/uploads/United-Nations-Report-of-the-Special-Rapporteur-on-the-right-to-food.pdf>

⁷ <http://apps.who.int/iris/bitstream/10665/254678/1/WHO-FWC-IHE-17.01-eng.pdf?ua=1>

⁸ <https://www.theguardian.com/guardian-us-press-office/2016/oct/28/guardian-us-receives-major-grant-to-create-change-within-the-homelessness-crisis>

⁹ <http://www.globaljustice.org.uk/sites/default/files/files/resources/gated-development-global-justice-now.pdf>

¹⁰ <https://www.theguardian.com/world/2009/may/31/new-york-billionaire-philanthropists>

Soros, [Warren Buffett](#), Oprah Winfrey, David Rockefeller and Ted Turner. But there are others, too, like business giants Eli and Edythe Broad, who are equally wealthy but less well known. All told, its members are worth \$125bn. The meeting - called by Gates, Buffett and Rockefeller - was held in response to the global economic downturn and the numerous health and environmental crises that are plaguing the globe. It was, in some ways, a summit to save the world.”

But there is a potential downside to the growth of these "über donors", especially if the whims of individuals start to take precedence over the expertise of professionals. The strange truth is that giving away billions of dollars is difficult and fraught with risk. There can be waste, mismanagement and poor investment. At the same time, it can actually do harm. "If you are putting enormous amounts of money into a community that can't cope with it, then you can implode that community," Peterson said. Others are even more outspoken at the growing dominance of a tiny handful of billionaires in the development sector. "The problem with any Good Club is that all the people might not be 'good'. Or at least not 'good' in universal definitions," said Louise Uwacu, the Rwandan-born founder of the Canadian education charity Positivision. There is also the issue of accountability. Even the most repressive of national governments is on some level beholden to its own people, or has the capacity to change and reform under popular pressure. But who votes for the Good Club?

Why are some of the *Guardian* Editors rotating between the UK, the US and Australia?

Katharine Viner, John Mulholland, Lee Glendinning, Paul Chadwick and David Pemsel are being supported by the Bill and Melinda Gates Foundation (BMGF) and the Rockefeller Foundation to promote Monsanto, pesticides, GM crops and vaccines.

***Observer's* view on GM crops in 2014: There's no choice – we must grow GM crops, now**¹¹

"We have a great deal to gain from growing GM crops. They offer humanity a way to improve food productivity without having to make further inroads into our planet's wild places to create more fields for farmers. The position was summed up by [Sir Mark Wolpert](#), the government chief scientist last week, when debating the CST's report. "The challenge is to get more from existing land in a sustainable way or face the alternative, which is that people will go unfed, or we'll have to bring more wilderness land into cultivation." From that perspective, the case for GM crops is unanswerable."

***Observer's* false claims on Europe Court of Justice's attitude to gene-editing crops**¹²

Observer Editorial said: "It was therefore dismaying to note the decision by the European court of justice to impose extra burdens on researchers. The court's target was the new technology of gene editing. Its use should be strictly limited in Europe, the judges ruled. Thus, the development of new plant breeds will become very much harder while the judgment also threatens to rob Europe of the lead its scientists could take in feeding the planet.

Crispr, or to give it its full name, Crispr-Cas9, allows scientists to precisely target and edit pieces of the genome. Crispr is a guide molecule made of RNA, that allows a specific site of interest on the DNA double helix to be targeted. The RNA molecule is attached to Cas9, a bacterial enzyme that works as a pair of "molecular scissors" to cut the DNA at the exact point required. This allows scientists to cut, paste and delete single letters of genetic code. Huw Jones, a crop expert at Aberystwyth University, said he was "shocked and saddened" by the decision, while Johnathan Napier of Rothamsted Research described it as a "very disappointing backward step".

The *Observer* makes false claims of precision for the new GM methods¹³

GM Watch corrects the *Observer's* understanding of science and quotes the *Observer*: "Crispr, or to give it its full name, Crispr-Cas9, allows scientists to precisely target and edit pieces of the genome." In making this claim, the *Observer* wilfully ignores years of scientific studies [showing](#) that genome editing techniques like CRISPR have unintended (off-target) effects. In the case of food crops, just as

¹¹ <https://www.theguardian.com/commentisfree/2014/mar/16/gm-crops-world-food-famine-starvation>

¹² <https://www.theguardian.com/commentisfree/2018/jul/29/observer-view-on-europe-ban-on-gene-editing-crops>

¹³ <https://www.gmwatch.org/en/news/latest-news/18375-eu-court-ruling-on-new-gm-techniques-the-observer-gets-it-wrong>

with the earlier GM methods, the new techniques could cause changes in the biochemical pathways of the plant, resulting in the production of novel toxins and allergens and unexpected nutritional changes. While CRISPR can precisely target the initial cut of the DNA, the subsequent events are neither precise nor controllable. The rest of the process depends on the cell's repair mechanisms "mending" the damaged DNA. Often a perfect repair is not achieved. This can result in unintended [deletions or insertions](#) of DNA, with unknown consequences.

UK *Guardian* never reported the verdict of the trial against Monsanto in the US

That Monsanto was found guilty of concealing (with malice and oppression) that Roundup caused cancer. On Saturday 11th August, Fatima Manji announced the verdict of the US trial against Monsanto. [California-Jury finds in favour of Plaintiff against Monsanto - Nearly three hundred million dollars awarded against Monsanto.](#)¹⁴ Channel 4 news showed an extract from Dewayne (Lee) Johnson thanking his legal team.¹⁵ and an extract of a Video of Judge Bolanos announcing the Verdict¹⁶. The BBC showed identical extracts. But the BBC Reporter said that the UK would not be banning Roundup, because Cancer Research UK said that it did not cause cancer. But Cancer Research UK is run by the pesticides industry (see page 6)

The creator of GMO potatoes reveals the dangerous truth¹⁷

‘Pandora’s Potatoes: The Worst GMOs’

The Ex-Director of J.R. Simplot and team leader at Monsanto, Caius Rommens, has revealed the hidden dangers of the GMO potatoes he created, in a wide ranging interview for Sustainable Pulse, on the same day that his book ‘Pandora’s Potatoes: The Worst GMOs’ was released [on Amazon](#). [Here are some extracts from the interview.](#)

“During my 26 years as a genetic engineer, I created hundreds of thousands of different GM potatoes at a direct cost of about \$50 million. I started my work at universities in Amsterdam and Berkeley, continued at Monsanto, and then worked for many years at J. R. Simplot Company, which is one of the largest potato processors in the world. I had my potatoes tested in greenhouses or the field, but I rarely left the laboratory to visit the farms or experimental stations. Indeed, I believed that my theoretical knowledge about potatoes was sufficient to improve potatoes. We believed that the essence of life was a dead molecule, DNA, and that we could improve life by changing this molecule in the lab. We also assumed that theoretical knowledge was all we needed to succeed, and that a single genetic change would always have one intentional effect only. This was one of my biggest mistakes. Looking back at myself and my colleagues, I believe now that we were all brainwashed; that we all brainwashed ourselves. We were supposed to understand DNA and to make valuable modifications, but the fact of the matter was that we knew as little about DNA as the average American knows about the Sanskrit version of the Bhagavad Gita. We just knew enough to be dangerous, especially when combined with our bias and narrowmindedness. We focused on short-term benefits (in the laboratory) without considering the long-term deficits (in the field).”

UK’s Science Media Centre lambasted for pushing corporate science.¹⁸ *Guardian* journalists uncritically report SMC. CRUK/top doctors say that cancers are caused by lifestyle choices

The meeting of global science writers in Bath in 2014 concluded: “*Journalists who uncritically report on SMC briefings and quotes sent by the centre are being taken for a ride by a lobby organisation instead of a neutral science information provider.*” Connie St Louis, former president of the

¹⁴ <https://www.courthousenews.com/jury-finds-monsanto-liable-in-roundup-cancer-trial/>

¹⁵

<https://www.facebook.com/responsibletechnology/videos/vb.355853721234/10155799742171235/?type=2&theater>

¹⁶ <https://www.youtube.com/watch?v=um00x2EITWs&feature=youtu.be>

¹⁷ https://sustainablepulse.com/2018/10/09/the-creator-of-gmo-potatoes-reveals-the-dangerous-truth-exclusive-interview/#.W70H-i97E_V

¹⁸ <https://www.scidev.net/global/journalism/feature/uk-s-science-media-centre-lambasted-for-pushing-corporate-science.html>

Association of British Science Writers and a senior lecturer at City University, London said: “*I would close down the UK Science Media Centre.*” She conducted a small study on the centre’s impact on UK science reporting in the 12 national newspapers in 2011 and 2012. The SMC’s main activities include sending out ‘expert reactions’ — quotes on issues in the news — and holding media briefings, essentially small press conferences with a few experts. She found that more than half the SMC’s expert reactions were covered in the press and, in 23 per cent of the stories that included these, the only quotes were those that came from the centre.

David Miller, a professor of sociology from the University of Bath, United Kingdom, presented a scathing analysis of the SMC, based on a combination of methods, such as analysing the SMC’s website content and sending out freedom of information requests. He looked at which experts the centre uses — given that its mission is to get scientists’ views across. What he found was that some 20 of the 100 most quoted experts were not scientists, as defined by having a PhD and working at a research institution or a top learned society. Instead they were lobbyists for and CEOs of industry groups.

Cancer Research UK protects the Agrochemical Industry: the CRUK website claims ‘*there is little evidence that pesticides cause cancer*’

Michael Pragnell former Chairman of Cancer Research UK (2010-2017), founder of Syngenta and former Chairman of CropLife International was awarded a CBE in 2017 for services to cancer research. CropLife International was founded in 2001.¹⁹ As of 2015 CropLife International’s member list includes the following 8 companies: BASE, Bayer CropScience, Dow AgroSciences, DuPont, FMC Corp., Monsanto, Sumitomo and Syngenta. Many of these corporations make their own formulated glyphosate. CRUK said that there was little evidence that pesticides caused cancer. CRUK, the CMO England and Public Health England, linked cancer to alcohol, obesity and smoking. They blamed the people for 'lifestyle choices'.

In the UK there were 13,605 new cases of Non-Hodgkin Lymphoma in 2015 (and 4,920 deaths in 2016)²⁰

There were 41,804 new cases of bowel cancer in 2015 (and 16,384 deaths in 2016); 12,547 new cases of kidney cancer in 2015 (and 4,619 deaths in 2016); 5,736 new cases of liver cancer in 2015 (5,417 deaths in 2016); 15,906 new cases of melanoma in 2015 (2,285 deaths in 2016); 3,528 new cases of thyroid cancer in 2015 (382 deaths in 2016); 10,171 new cases of bladder cancer in 2015 (5,383 deaths in 2016); 8,984 new cases of uterine cancer in 2015 (2,360 deaths in 2016); 7,270 cases of ovarian cancer in 2015 (4,227 deaths in 2016); 9,900 new cases of leukaemia in 2015 (4,712 deaths in 2016); 55,122 new cases of invasive breast cancer in 2015 (11,563 deaths in 2016); 46,388 new cases of lung cancer in 2015 (and 35,620 deaths in 2016); 47,151 new cases of prostate cancer in 2015 (11,631 deaths in 2016); 9,211 new cases of oesophageal cancer in 2015 (8,004 deaths in 2016) and 5,540 new cases of myeloma in 2015 (3,079 deaths in 2016); 2,288 new cases of testicular cancer in 2015 (57 deaths in 2016); 9,921 new cases of pancreatic cancer in 2015 (9,263 deaths in 2016); 11,432 new cases of brain cancer in 2015 (5,250 deaths in 2016). In the US in 2014 there were 24,050 new cases of myeloma.

In 2011, CRUK began donating money (£450 million/year) to the Government’s Strategy for UK Life Sciences and AstraZeneca provided 22 compounds to academic research to develop medicines.²¹

In March 2018, the Head of Research from GlaxoSmithKline, Patrick Vallance was appointed Chief Scientific Adviser to the UK Government. The former Editor of the *New England Journal of Medicine* Marcia Angell reported in 2008 that “*over the past two decades the pharmaceutical industry has gained unprecedented control over its own products. Drug companies now finance most clinical*

¹⁹ https://www.vinci.com/vinci.nsf/en/management-board-directors/pages/michael_pragnell.htm

²⁰ <https://www.cancerresearchuk.org/health-professional/cancer-statistics/statistics-by-cancer-type/non-hodgkin-lymphoma>

²¹ <https://www.gov.uk/government/publications/uk-life-sciences-strategy>

research over prescription drugs and there is mounting evidence they often skew the research they sponsor to make their drugs look better and safer."²²

In 2014 China fined the British pharmaceuticals giant GlaxoSmithKline \$488.8 million (3 billion Yuan) for a "massive bribery network" to get doctors and hospitals to use its products.²³

In 2016, GlaxoSmithKline (GSK) was fined £37.6m by the UK competition watchdog for paying drug makers in return for delaying cheaper generic versions of Seroxat.²⁴

US Scientist Anthony Samsel has analysed more than 100,000 pages of Monsanto's secret sealed studies: one of Monsanto's studies showed glyphosate caused cataracts and eye damage

Samsel and Seneff wrote paper IV on Glyphosate: Glyphosate, pathways to modern diseases IV: cancer and related pathologies²⁵ and concluded that: "*significant evidence of tumours was found during these investigations*". In the paper by Ridley and Mirly (1988), commissioned by Monsanto, Table 11 Page 127 shows the distribution and bioaccumulation of ¹⁴C labelled glyphosate in blood, marrow, and glands including the thyroid, testes and ovaries, as well as major organs, including the heart, liver, lungs, kidneys, spleen and stomach and other tissues of Sprague Dawley rats. The eye is included in this list. (Table 8 Page 126): Incidence and occurrence of ophthalmic degenerative lens changes by glyphosate.

Table 9 Page 126: Data on unilateral and bilateral cataracts (all types) and Y-suture opacities, excluding "prominent Y suture", following glyphosate exposure to rats: this Stout & Ruecker (1990) study was commissioned by Monsanto.²⁶ A Monsanto scientist had claimed that glyphosate didn't accumulate but was excreted unchanged from the body²⁷ and referred to the glyphosate re-assessment in Europe in 2002. However, Monsanto's secret studies revealed otherwise.

The increase in cataracts has been confirmed by epidemiological studies in England and by a 2016 WHO Report. The European Chemicals Agency also endorsed it

Annual rates of admission for cataract surgery in England rose 10-fold from 1968 to 2004: from 62 episodes per 100,000 population in 1968 to 637 in 2004.²⁸ A 2016 study by the WHO also confirmed that the incidence of cataracts had greatly increased.²⁹ 'A global assessment of the burden of disease from environmental risks' it says that cataracts are the leading cause of blindness worldwide. Globally, cataracts are responsible for 51% of blindness – an estimated 20 million individuals suffer from this degenerative eye disease. ECHA's harmonised classification, on which the European Commission's decision was based, said glyphosate was a substance causing serious eye damage.³⁰

Anthony Samsel gave Testimony to the California Environmental Protection Agency

"There are no safe levels of glyphosate. Glyphosate is a synthetic amino acid and analogue of our canonical amino acid glycine and participates in plant and animal biology.

One microgram of glyphosate technical acid (N-phosphonomethyl glycine) contains 3.561 trillion molecules each capable of integrating with a protein altering shape, folding and function.

I am a US scientist and hazardous chemicals materials consultant and expert on the subject of

²² <https://jamanetwork.com/journals/jama/article-abstract/182478?redirect=true>

²³ <https://abcnews.go.com/International/glaxosmithkline-gsk-fined-4888-million-massive-bribery-network/story?id=25624684>

²⁴ <https://www.theguardian.com/business/2016/feb/12/glaxosmithkline-fined-anti-competitive-behaviour-seroxat>

²⁵

https://www.academia.edu/17751562/Glyphosate_pathways_to_modern_diseases_IV_cancer_and_related_pathologies <http://www.amsi.ge/jbpc/31515/11SA15R.pdf>

²⁶ Stout, L.D. & Ruecker, F.A. Chronic study of glyphosate administered in feed to albino rats. Unpublished Study, Project No. MSL-10495. Monsanto Agricultural Company (2,175 pp.) EPA MRID 416438-01 (26 September 1990)

²⁷ <https://gmoanswers.com/ask/hi-does-senior-monsanto-scientist-dan-goldstein-still-maintain-if-ingested-glyphosate-excreted>

²⁸ <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1955650/>

²⁹ http://apps.who.int/iris/bitstream/10665/204585/1/9789241565196_eng.pdf

³⁰ <https://echa.europa.eu/-/glyphosate-not-classified-as-a-carcinogen-by-echa>

Glyphosate. I am one of few people to have received all of the Monsanto's trade secret sealed studies on glyphosate from the US EPA. The federal agency supplied these documents in excess of 100,000 pages to me under the FOIA with special consideration for my research into this chemical. I now have six peer-reviewed papers on the subject of glyphosate and several more papers on the glyphosate in progress, a short list to some of these studies links are appended. The full series of peer-reviewed glyphosate papers may be found at ResearchGate in the author file under Anthony Samsel. Babies and young children are now stricken with cancers and these have not a chance at a normal life, with many not cured but extinguished. Something is causing these maladies and I suspect N-nitrosamines of glyphosate may be to blame. This is not chronic long-term exposure. I strongly believe that long-term exposure is not necessary for the induction of cancer."³¹

Glyphosate, pathways to modern diseases III: Manganese, neurological diseases, and associated pathologies³²

Abstract: *Manganese (Mn) is an often overlooked but important nutrient, required in small amounts for multiple essential functions in the body. A recent study on cows fed genetically modified Roundup®-Ready feed revealed a severe depletion of serum Mn. Glyphosate, the active ingredient in Roundup®, has also been shown to severely deplete Mn levels in plants. Here, we investigate the impact of Mn on physiology, and its association with gut dysbiosis as well as neuropathologies such as autism, Alzheimer's disease (AD), depression, anxiety syndrome, Parkinson's disease (PD), and prion diseases. Glutamate overexpression in the brain in association with autism, AD, and other neurological diseases can be explained by Mn deficiency. Mn superoxide dismutase protects mitochondria from oxidative damage, and mitochondrial dysfunction is a key feature of autism and Alzheimer's. Chondroitin sulfate synthesis depends on Mn, and its deficiency leads to osteoporosis and osteomalacia. Lactobacillus, depleted in autism, depends critically on Mn for antioxidant protection. Lactobacillus probiotics can treat anxiety, which is a comorbidity of autism and chronic fatigue syndrome. Reduced gut Lactobacillus leads to overgrowth of the pathogen, Salmonella, which is resistant to glyphosate toxicity, and Mn plays a role here as well. Sperm motility depends on Mn, and this may partially explain increased rates of infertility and birth defects. We further reason that, under conditions of adequate Mn in the diet, glyphosate, through its disruption of bile acid homeostasis, ironically promotes toxic accumulation of Mn in the brainstem, leading to conditions such as **Parkinson's Disease** and prion diseases.*

Associations with neurodegenerative disorders in humans

Ya-xing Gui *et al.* [Glyphosate induced cell death through apoptotic and autophagic mechanisms.](#) *Neurotoxicology and Teratology* 2012, 34 (3): 344–349³³

Herbicides have been recognized as the main environmental factor associated with human neurodegenerative disorders such as Parkinson's disease (PD). Previous studies indicated that the exposure to glyphosate, a widely used herbicide, is possibly linked to Parkinsonism, however the underlying mechanism remains unclear. We investigated the neurotoxic effects of glyphosate in differentiated PC12 cells and discovered that it inhibited viability of differentiated PC12 cells in dose- and time-dependent manners. Furthermore, the results showed that glyphosate induced cell death via autophagy pathways in addition to activating apoptotic pathways. Interestingly, deactivation of Beclin-1 gene attenuated both apoptosis and autophagy in glyphosate treated differentiated PC12 cells, suggesting that Beclin-1 gene is involved in the crosstalk between the two mechanisms.

Séralini's team finds heavy metals in some chemical formulants of GBH that are in our diet and being sprayed on weeds and on the public

Extract: *As with other pesticides, 10–20% of GBH consist of chemical formulants. We previously identified these by mass spectrometry and found them to be mainly families of petroleum-based*

³¹ https://oehha.ca.gov/media/dockets/8594/9423-anthony_samsel/letter_ca_epa_june_16_2017_n-nitrosamines_pdf_002.pdf

³² http://www.surgicalneurologyint.com/temp/SurgNeuroInt6145-4381109_121011.pdf

³³ <https://www.ncbi.nlm.nih.gov/pubmed/22504123>

oxidized molecules, such as POEA, and other contaminants. In this work, we also identified by mass spectrometry the heavy metals arsenic, chromium, cobalt, lead and nickel, which are known to be toxic and endocrine disruptors, as contaminants in 22 pesticides, including 11 G- based ones.³⁴

Monsanto emails showed that scientists knew that ‘the formulated product does the damage’³⁵

This document is an email correspondence between Drs. William Heydens and Donna Farmer, wherein the two discuss various studies which observed adverse effects by the formulated Roundup product. Specifically, Dr. Farmer acknowledges: “[t]he interest point is glyphosate all basically [sic] had no effect the formulated product did – does this point us to the coformulants – surfactants? [sic]” at *2. Dr. Heydens also admits, after discussing with Monsanto consultant John Desesso, that “we are in pretty good shape with glyphosate but vulnerable with surfactants. . . What I’ve been hearing from you is that this continues to be the case with these studies – Glyphosate is OK but the formulated product (and thus the surfactant) does the damage.” at *1.

One of the Court Documents released was an email from Donna Farmer, Monsanto Senior Toxicologist: “The terms glyphosate and Roundup cannot be used interchangeably nor can you use “Roundup” for all glyphosate-based herbicides any more. For example you cannot say that Roundup is not a carcinogen...**we have not done the necessary testing on the formulation to make that statement.**”

Genetically-engineered crops, glyphosate and the deterioration of health in the United States of America. Swanson *et al.*³⁶

Abstract: A huge increase in the incidence and prevalence of chronic diseases has been reported in the United States (US) over the last 20 years. Similar increases have been seen globally. The herbicide glyphosate was introduced in 1974 and its use is accelerating with the advent of herbicide-tolerant genetically engineered (GE) crops. Evidence is mounting that glyphosate interferes with many metabolic processes in plants and animals and glyphosate residues have been detected in both. Glyphosate disrupts the endocrine system and the balance of gut bacteria, it damages DNA and is a driver of mutations that lead to cancer.

In the present study, US government databases were searched for GE crop data, glyphosate application data and disease epidemiological data. Correlation analyses were then performed on a total of 22 diseases in these time-series data sets. The Pearson correlation coefficients are highly significant ($< 10^{-5}$) between glyphosate applications and **hypertension** ($R = 0.923$), **stroke** ($R = 0.925$), **diabetes prevalence** ($R = 0.971$), **diabetes incidence** ($R = 0.935$), **obesity** ($R = 0.962$), **lipoprotein metabolism disorder** ($R = 0.973$), **Alzheimer’s** ($R = 0.917$), **senile dementia** ($R = 0.994$), **Parkinson’s** ($R = 0.875$), **multiple sclerosis** ($R = 0.828$), **autism** ($R = 0.989$), **inflammatory bowel disease** ($R = 0.938$), **intestinal infections** ($R = 0.974$), **end stage renal disease** ($R = 0.975$), **acute kidney failure** ($R = 0.978$) cancers of the **thyroid** ($R = 0.988$), **liver** ($R = 0.960$), **bladder** ($R = 0.981$), **pancreas** ($R = 0.918$), **kidney** ($R = 0.973$) and **myeloid leukaemia** ($R = 0.878$).

The Pearson correlation coefficients are highly significant ($< 10^{-4}$) between the percentage of GE corn and soy planted in the US and **hypertension** ($R = 0.961$), **stroke** ($R = 0.983$), **diabetes prevalence** ($R = 0.983$), **diabetes incidence** ($R = 0.955$), **obesity** ($R = 0.962$), **lipoprotein metabolism disorder** ($R = 0.955$), **Alzheimer’s** ($R = 0.937$), **Parkinson’s** ($R = 0.952$), **multiple sclerosis** ($R = 0.876$), **hepatitis C** ($R = 0.946$), **end stage renal disease** ($R = 0.958$), **acute kidney failure** ($R = 0.967$), cancers of the **thyroid** ($R = 0.938$), **liver** ($R = 0.911$), **bladder** ($R = 0.945$), **pancreas** ($R = 0.841$), **kidney** ($R = 0.940$) and **myeloid leukaemia** ($R = 0.889$). The significance and strength of the correlations show that the effects of glyphosate and GE crops on human health should be further investigated.

³⁴ https://www.gmoseralini.org/wp-content/uploads/2018/01/Defarge-et-al_TOXREP_2018.pdf

³⁵ <https://www.baumhedlundlaw.com/toxic-tort-law/monsanto-roundup-lawsuit/monsanto-secret-documents-page-six/>

³⁶ http://www.organic-systems.org/journal/92/JOS_Volume-9_Number-2_Nov_2014-Swanson-et-al.pdf

Declaration of the 3rd NATIONAL CONGRESS OF PHYSICIANS IN THE CROP-SPRAYED TOWNS 26/11/2015 ³⁷ **European Glyphosate Task Force excluded this from their reassessment**

Extracts: “Five years since the first meeting at the Faculty of Medical Sciences of Córdoba, scientists, doctors and members of health teams for sprayed villages of Argentina, gathered in the Aula Magna of the Faculty of Medicine of the University of Buenos Aires (UBA), we verify that what we said then is dramatically true and getting worse by the day: the current system of agricultural production in the country pollutes the environment and Argentine food, sickening and killing human populations in agricultural areas. In the last 25 years the consumption of pesticides increased by 983% (from 38 to 370 million kilos), while the cultivated area increased by 50% (from 20 million ha to 30 million ha). A production system based on the systematic application of agricultural poisons means, inevitably, that nature responds by adapting, forcing farmers to apply greater quantities of pesticides in the field to achieve the same objectives. Over the years a system has been created by and for sellers of pesticides, who every year increase their net sales (in 2015 the increase was 9%) while our patients, too, year after year are being exposed to this pesticide pollution more and more.

There is no doubt that the massive and growing exposure to pesticides changed the disease profile of Argentine rural populations and that **cancer is the leading cause of death among them (and the worst way to die)**.

Research presented at the congress show studies at different scales, which highlight a consistent pattern of toxicity. From small towns to larger populations at the provincial level (as in Chaco and Córdoba) or national level, different levels of exposure to glyphosate or agricultural poisons in general are compared, showing that reproductive health is affected by increases in spontaneous abortions and birth defects, also increased endocrine disorders such as hypothyroidism, neurological disorders or cognitive development problems and soaring of cancer rates to a tripling of incidence, prevalence and mortality which are directly related to pesticide exposure. In parallel, data from studies in experimental models show that the genotoxicity of glyphosate and other pesticides is an underlying biological mechanism that explains its relationship with disease that doctors have found in our patients. Furthermore, genotoxicity has been verified in agricultural populations (adults and children) exposed to pesticides while being absent in populations that are not fumigated.

All these elements in the field of public health are a warning to the toxic nature of agriculture in general and GM agriculture in particular, they have grown in our country as a result of the immense influence of large multinational pesticide companies like Monsanto, Bayer, Syngenta, Dow, Dupont, etc., who are just looking to increase their sales regardless of the damage to environmental and public health from this system.

This is not only an Argentine problem, identical situations occur in other countries with reproducible results in Brazil, Uruguay, Central America, Paraguay, etc. Everywhere there is growing resistance to toxic agriculture and honest doctors and scientists all sides accompany these struggles with their diagnoses and providing technical studies as inputs there to.

Struggles that seek to prioritize values such as health and the environment over economic and commercial interests of large biotech companies and sowing pools in defence of human rights violated by heavily extractive productivist policies that destroy the environment into a collective health crisis.”

Neurotransmitter changes in the brain from exposure to Glyphosate-based herbicides

Many papers come from Latin American countries where they grow almost exclusively GM Roundup Ready Crops that Monsanto forced on them in 1996: this is one of many papers that the European Glyphosate Task Force excluded from their reassessment

Behavioral impairments following repeated intranasal glyphosate-based herbicide administration in mice. ³⁸

Taken together, our findings demonstrate that intranasal (IN) exposure to commercial Gly-BH produces alterations in locomotor activity, anxiety and memory in adult mice. These observations

³⁷ <http://reduas.com.ar/declaration-of-the-3rd-national-congress-of-physicians-in-the-crop-sprayed-towns/#more-1541>

³⁸ <https://www.sciencedirect.com/science/article/pii/S0892036217301526>

could be a consequence of alterations in neurotransmission systems comprising the GABAergic, dopaminergic, serotonergic and/or cholinergic systems.” In this research paper there are references to many papers from around the world that confirm the glyphosate-based herbicides are damaging to the development of the foetal brain and that repeated exposure is toxic to the adult human brain and may result in alterations in locomotor activity, feelings of anxiety and memory impairment.

This is why there are so many mental health and psychiatric disorders, depression, suicides, anxiety and violence among children and adults in the UK and in the US.

Differential impact of pure glyphosate and glyphosate-based herbicide in a model of peripheral nervous system myelination³⁹

A paper from neurologists in Germany: As the exact composition of the GBH used in this study remains unknown, we could not conclusively identify the compound responsible for demyelination. However, the very fact that the ingredients are not fully declared is a topic that merits further discussion. Further studies are warranted to identify and characterize the neurotoxic potential of auxiliary agents in widely used herbicide products. It cannot be ruled out that individuals chronically exposed to GBH or related chemicals might be at increased risk of developing diseases of the PNS, including demyelinating neuropathies. As such, further epidemiological studies are urgently required to corroborate or refute these assumptions.

A **demyelinating disease** is defined as any disease of the nervous system in which the myelin sheath of neurons is damaged. This damage impairs the conduction of signals in the affected nerves. In turn, the reduction in conduction ability causes deficiency in sensation, movement, cognition, or other functions depending on which nerves are involved.

Substantial increase in neurological deaths 1979-2010

Ten major developed Western countries and 10 smaller Western countries were studied.⁴⁰ There was a major reduction in general mortality in all 20 countries, but total neurological deaths rose substantially between 1980 and 2010 in both sexes in 16 out of 20 western countries. The mortality was significantly higher in females. *“Moreover, looking back 30 or more years the concept of early dementia or the need for the creation of a Young Parkinson’s Disease Society in Britain would have seemed a tautology. Furthermore, increasing deaths from Parkinson’s Disease and Motor Neurone Disease cannot be attributable to longevity, bearing in mind the relatively short-time period, and cannot explain the 55-64-year old mortality rises up to 2006. Clearly other influences must be operating, though in no way does this deny the importance of hereditary factors but rather strongly points towards an epigenetic explanation...”*

Pritchard suggests some possible environmental factors, but doesn’t mention pesticides!

The rise in Britain’s obesity crisis now outstrips that of the US⁴¹

The analysis by the Organisation for Economic Co-operation Development (OECD) shows levels in the UK have risen by 92 per cent in just over two decades - by far the steepest rise among countries with an obesity problem. The food they eat is poisoned with weedkiller and weedkiller is sprayed on them.

On the following pages (12-16) are a small selection of graphs taken from the paper on page 9. They are reproduced by kind permission of Dr Nancy Swanson.

³⁹ <http://link-springer-com-443.webvpn.jxutcm.edu.cn/article/10.1007%2Fs00401-018-1938-4>

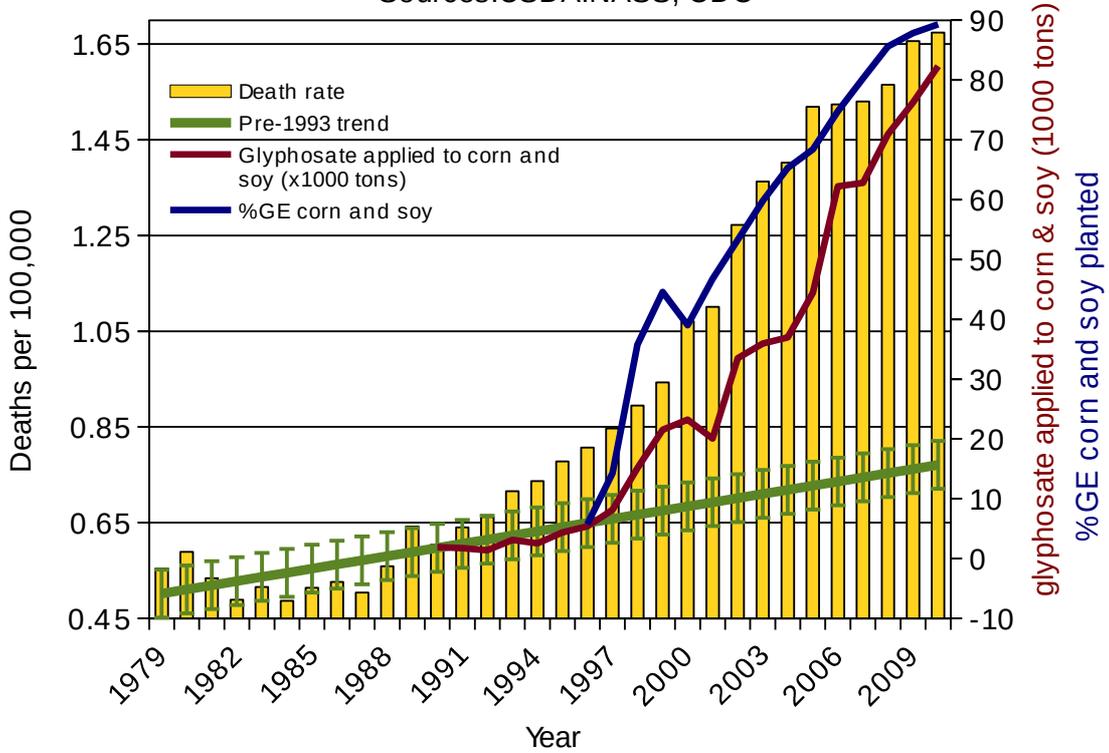
⁴⁰ <http://dx.doi.org/10.1016/j.phe.2012.12.018> Pritchard, C. *et al.* Changing patterns in mortality from neurological deaths in the 10 major developed countries 1979-2010 Public Health (2013)

⁴¹ <https://www.telegraph.co.uk/news/2017/11/10/britain-sixth-fattest-nation-world-rising-faster-united-states/>

Age Adjusted Deaths due to Obesity (ICD E66 & 278)

plotted against %GE corn & soy ($R = 0.9618, p \leq 3.504e-06$)
and glyphosate applied to corn & soy ($R = 0.9616, p \leq 1.695e-08$)

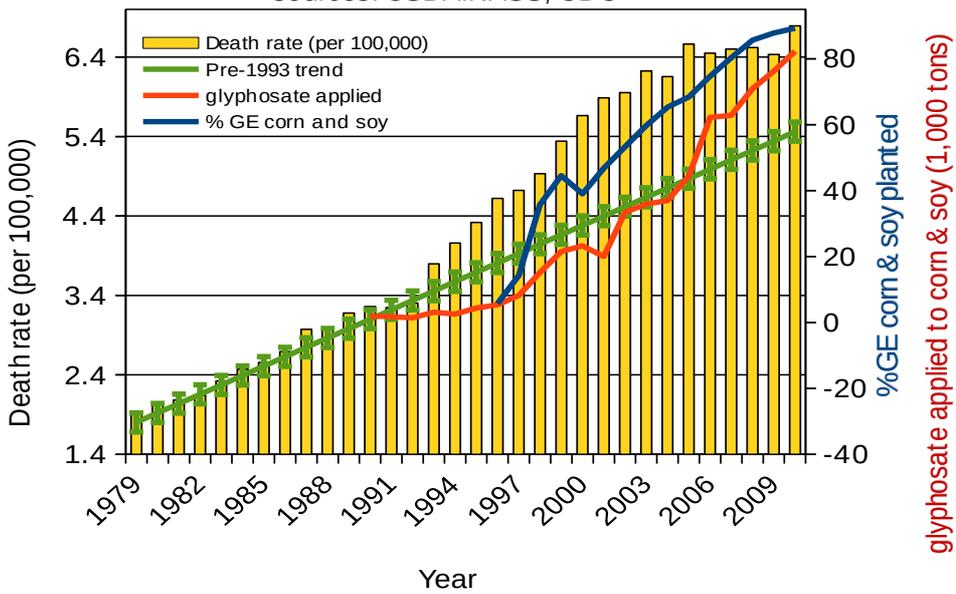
Sources: USDA:NASS; CDC



Age Adjusted Deaths from Parkinson's disease (ICD G20 & 332.0)

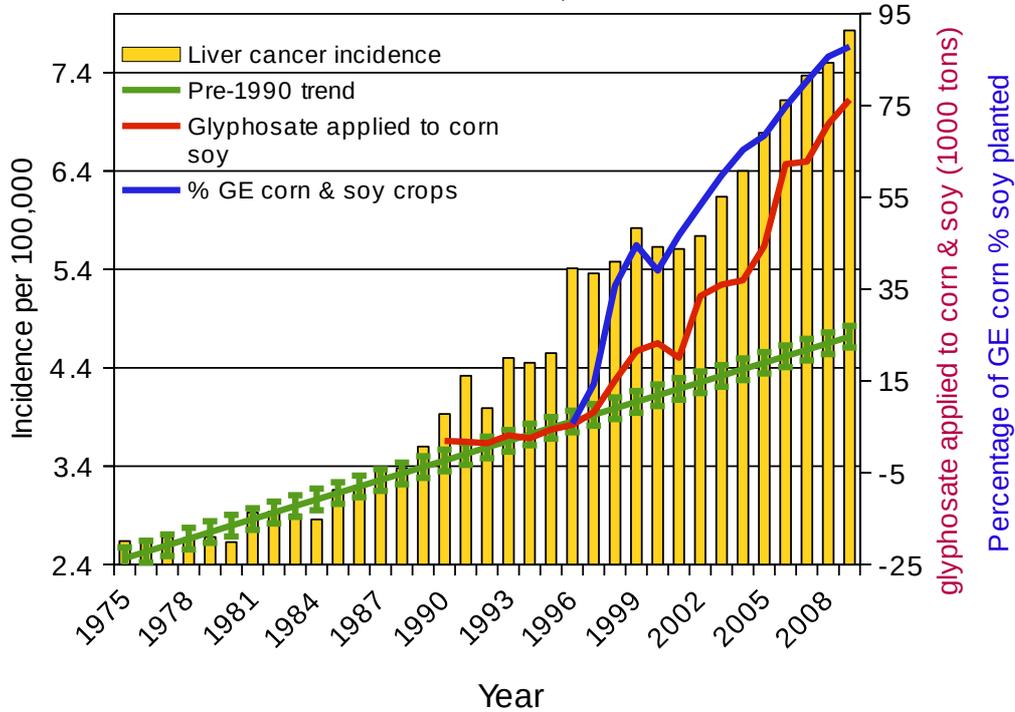
plotted against glyphosate use on corn & soy ($R = 0.8754, p \leq 1.631e-06$)
and percent GE corn & soy planted ($R = 0.9516, p \leq 5.398e-06$)

sources: USDA:NASS; CDC



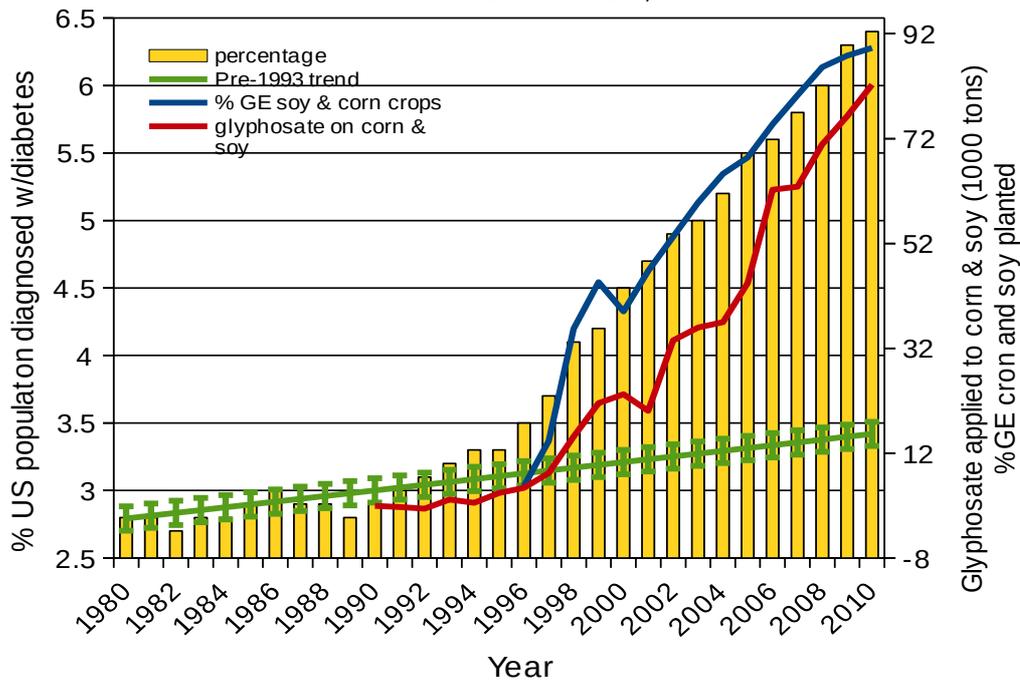
Liver and Intrahepatic Bile Duct Cancer Incidence (age adjusted)

plotted against glyphosate applied to corn & soy ($R = 0.9596, p \leq 4.624e-08$) along with %GE corn & soy planted in U.S. ($R = 0.9107, p \leq 5.402e-05$) sources: USDA:NAS; SEER



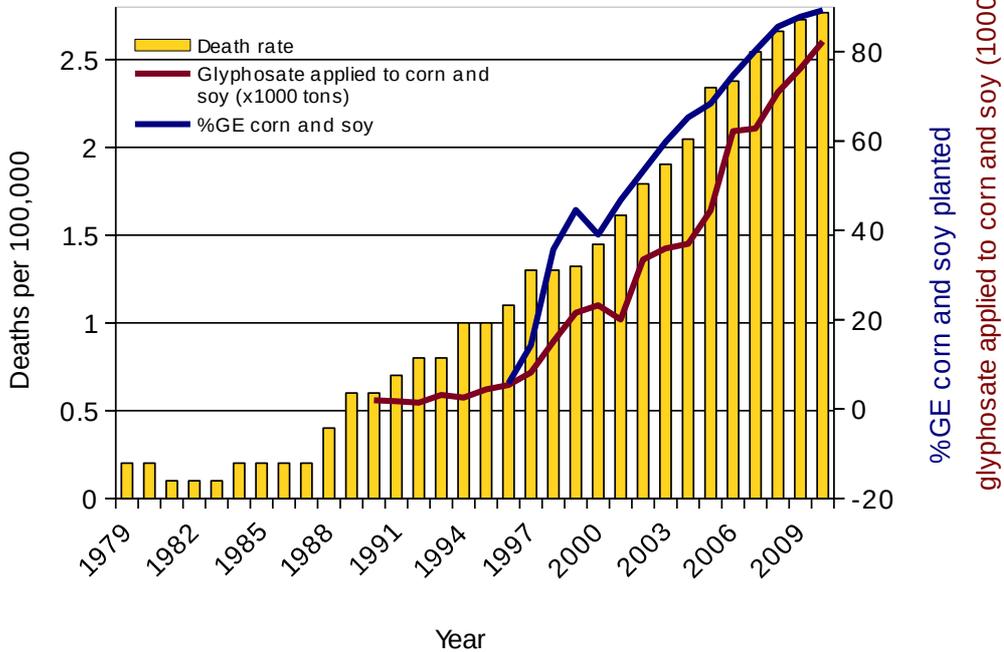
Prevalence of Diabetes in US (age adjusted)

plotted against glyphosate applied to corn & soy ($R = 0.971, p \leq 9.24e-09$) along with %GE corn & soy grown in US ($R=0.9826, p \leq 5.169e-07$) sources: USDA:NASS; CDC



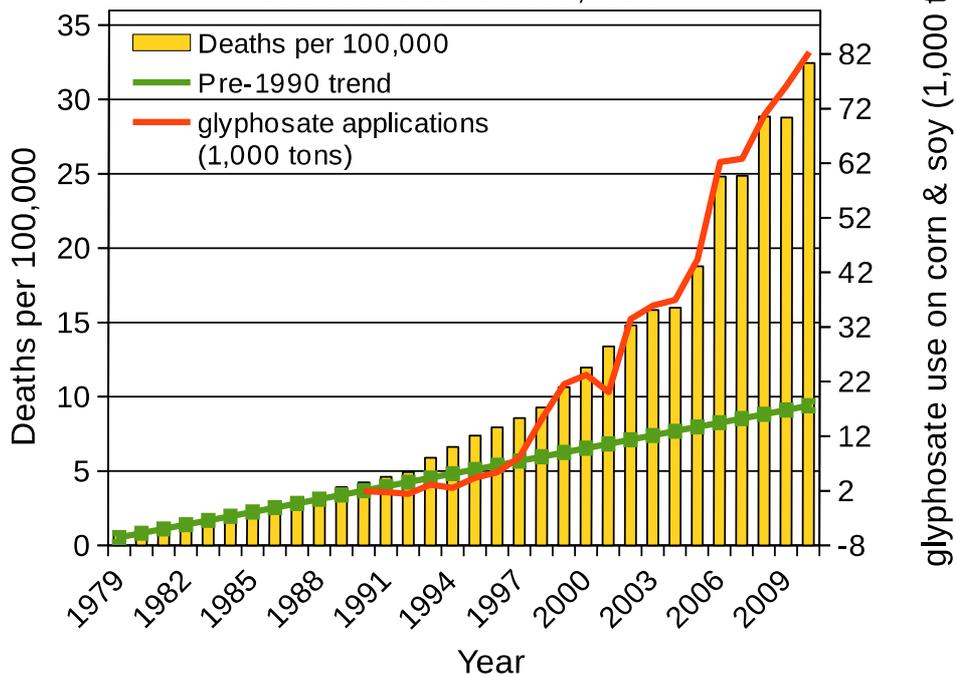
Age Adjusted Deaths due to Disorders of Lipoprotein Metabolism (ICD E78.5 hyperlipoproteinemia & E78.0 hypercholesterolemia)

plotted against %GE corn & soy ($R = 0.9549, p \leq 4.694e-06$)
and glyphosate applied to corn & soy ($R = 0.9734, p \leq 7.886e-09$)
Sources: USDA:NASS; CDC

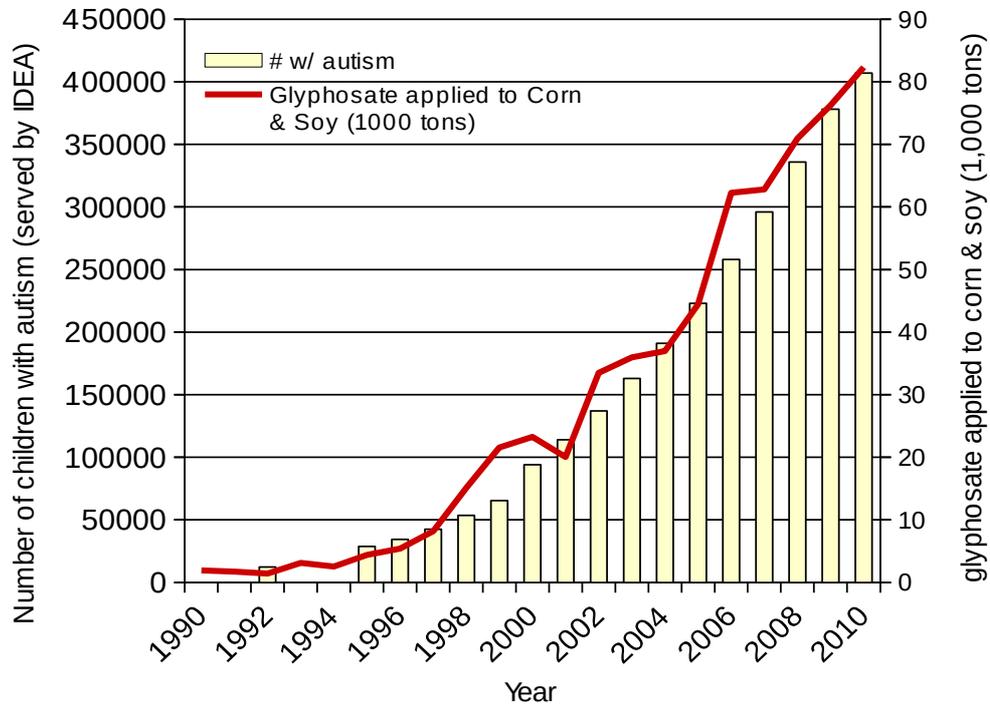


Age Adjusted Deaths from Senile Dementia (ICD F01, F03 & 290)

Plotted against glyphosate use on corn & soy
($R = 0.9942, p \leq 1.822e-09$)
Sources: USDA:NASS; CDC



Number of children (6-21yrs) with autism served by IDEA
 plotted against glyphosate use on corn & soy ($R = 0.9893$, $p \leq 3.629e-07$)
 Sources: USDA:NASS; USDE:IDEA



High levels of aluminium in the brain tissue in autism and familial Alzheimer's Disease

The paper Aluminium in the central nervous system (CNS): toxicity in humans and animals, vaccine adjuvants, and autoimmunity was published in 2013.⁴² In a conference in Canada in 2014, Neil Z. Miller comes up with a disturbing figure for the aluminium load in babies: "Thus, babies who follow the CDC immunization schedule are injected with nearly 5,000 micrograms (5 milligrams) of aluminium by 18 months of age,"⁴³ "Depending on their vaccine schedule, some babies may receive up to 1,475 micrograms of aluminium at their 12 or 15 month visit, which happens to be right around the age that most parents and doctors first notice the onset of autism symptoms."

Prof Exley's team from Keele University published two papers in 2017 about aluminium. Aluminium in brain tissue in autism in which samples from 5 donors from the Oxford Brain Bank had aluminium levels measured.⁴⁴ "We have made the first measurements of aluminium in brain tissue in Autism Spectrum Disorder (ASD). We have shown that the brain aluminium content is extraordinarily high. We have identified aluminium in brain tissue as both extracellular and intracellular with the latter involving both neurones and non-neuronal cells. The presence of aluminium in inflammatory cells in the meninges, vasculature, grey and white matter is a standout observation and could implicate aluminium in the aetiology of ASD."

Aluminium in brain tissue in familial Alzheimer's disease⁴⁵ "The brain is a highly compartmentalized organ exceptionally susceptible to accumulation of metabolic errors. Alzheimer's disease (AD) is the most prevalent neurodegenerative disease of the elderly and is characterized by regional specificity of neural aberrations associated with higher cognitive

⁴² <https://www.ncbi.nlm.nih.gov/pubmed/23609067>

⁴³ http://www.whale.to/vaccine/Aluminum_in_Vaccines.pdf

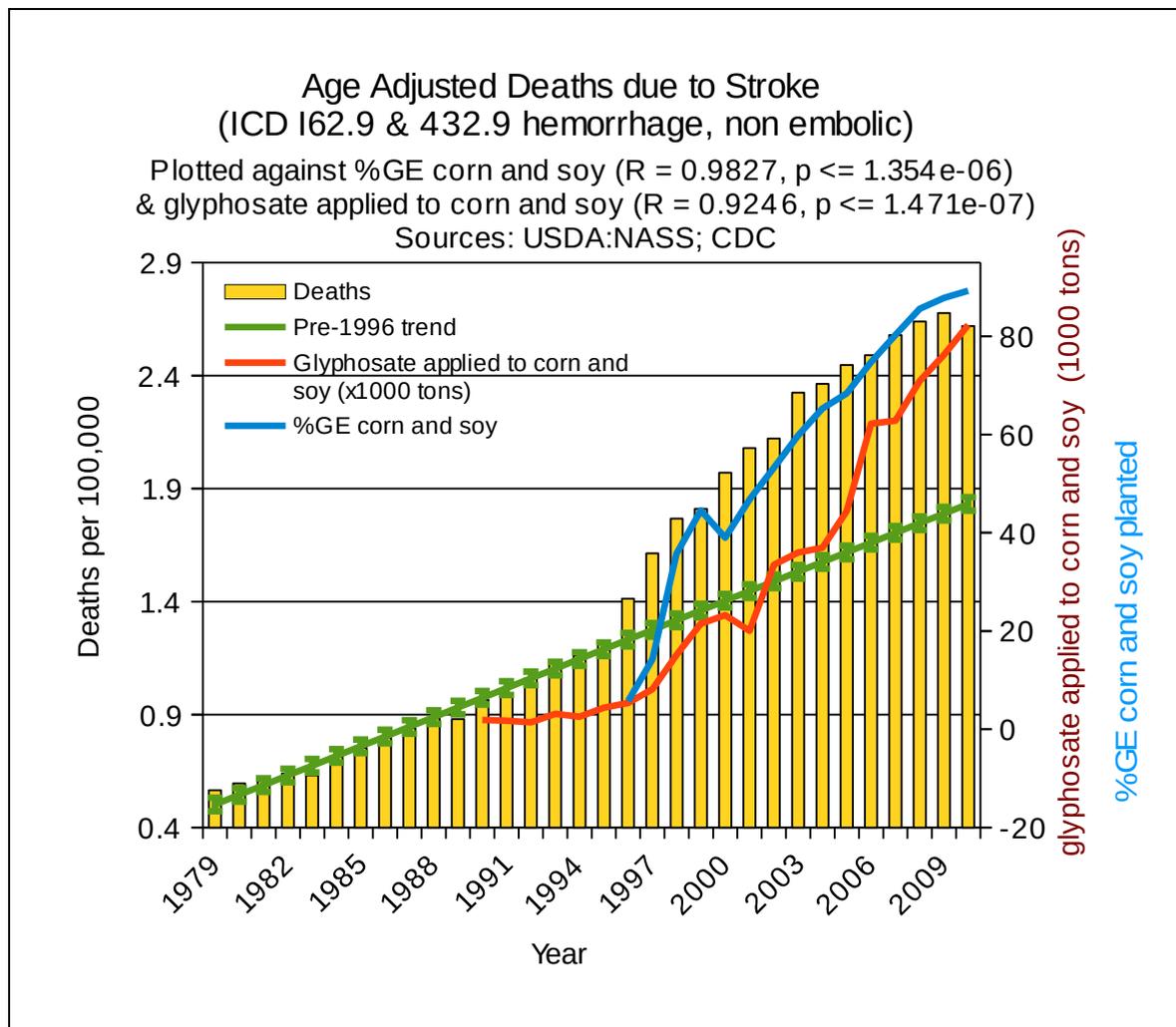
⁴⁴ <https://www.sciencedirect.com/science/article/pii/S0946672X17308763>

⁴⁵ <https://www.ncbi.nlm.nih.gov/pubmed/21157018>

functions. Aluminium (Al) is the most abundant neurotoxic metal on earth, widely bioavailable to humans and repeatedly shown to accumulate in AD-susceptible neuronal foci. Misconceptions about Al bioavailability may have misled scientists regarding the significance of Al in the pathogenesis of AD. The hypothesis that Al significantly contributes to AD is built upon very solid experimental evidence and should not be dismissed. Immediate steps should be taken to lessen human exposure to Al, which may be the single most aggravating and avoidable factor related to AD.”

Are vaccines associated with autism?

A study published in the September 2014 volume of the *Journal of Public Health and Epidemiology* reveals a significant correlation between autism disorder (AD) and MMR, Varicella (chickenpox) and Hepatitis-A vaccines. Using statistical analysis and data from the US Government, UK, Denmark and Western Australia, scientists at Sound Choice Pharmaceutical Institute (SCPI) found that increases in autistic disorder correspond with the introduction of vaccines using human fetal cell lines and retroviral contaminants.⁴⁶



Children in the UK have been exposed to toxic chemicals at home (and at school) from the earliest stage of development *in utero* when their brain is only the size of an insect
Compared with Europe, the academic performance of 15-year-old British school children has deteriorated between 2000 and 2013 according to OECD PISA tests.

⁴⁶ <http://soundchoice.org/scpiJournalPubHealthEpidem092014.pdf>

The Programme for International Student Assessment (PISA) is a worldwide study by the Organisation for Economic Co-operation and Development (OECD) in member and non-member nations of 15-year-old school pupils' scholastic performance on mathematics, science, and reading.⁴⁷ It is done with a view to improving education policies and outcomes. It measures problem solving and cognition in daily life. PISA was first performed in 2000 and then repeated every three years. In 2000 the UK was ranked 4th. By 2013 the UK failed to make the top 20 in mathematics, reading and science (3 December 2013). Although not directly comparable, because there have been different numbers of countries taking part, this marks a sustained decline. The UK has made little progress and remains among the average, middle-ranking countries, in 26th place for mathematics and 23rd for reading, broadly similar to three years ago. In 2016 an OECD study showed that in England the young have lower basic skills than their counterparts in Europe.⁴⁸ But adults approaching retirement age (55-65-year-olds) in England compare reasonably well with their counterparts in other countries. The study says: *“The priority of priorities is therefore to improve the standard of basic schooling in England, improving both average and minimum standards (which are especially weak in England).”*

The UN expert on Toxics, Baskut Tuncak wrote in the *Guardian* on 06/11/2017: The EU and glyphosate: it's time to put children's health before pesticides⁴⁹

“A pending decision on Monsanto’s ubiquitous weedkiller is a crucial opportunity to protect our children from the toxic cocktail of pesticides polluting their food, water and play areas.”

*“Our children are growing up exposed to a toxic cocktail of weedkillers, insecticides, and fungicides. It’s on their food and in their water, **and it’s even doused over their parks and playgrounds**. Many governments insist that our standards of protection from these pesticides are strong enough. But as a scientist and a lawyer who specialises in chemicals and their potential impact on people’s fundamental rights, I beg to differ. Last month it was revealed that in recommending that glyphosate – the world’s most widely-used pesticide – was safe, the EU’s food safety watchdog copied and pasted pages of a report directly from Monsanto, the pesticide’s manufacturer. Revelations like these are simply shocking.*

The UN Convention on the Rights of the Child, the most ratified international human rights treaty in the world (only the US is not a party), makes it clear that states have an explicit obligation to protect children from exposure to toxic chemicals, from contaminated food and polluted water, and to ensure that every child can realise their right to the highest attainable standard of health. These and many other rights of the child are abused by the current pesticide regime. These chemicals are everywhere and they are invisible. The only way to protect citizens, especially those disproportionately at risk from exposure, is for governments to regulate them effectively, in large part by adhering to the highest standards of scientific integrity.

Paediatricians have referred to childhood exposure to pesticides as creating a “silent pandemic” of disease and disability. Exposure in pregnancy and childhood is linked to birth defects, diabetes, and cancer. Because a child’s developing body is more sensitive to exposure than adults and takes in more of everything – relative to their size, children eat, breathe, and drink much more than adults – they are particularly vulnerable to these toxic chemicals. Increasing evidence shows that even at “low” doses of childhood exposure, irreversible health impacts can result. But, most victims cannot prove the cause of their disability or disease, limiting our ability to hold those responsible to account. In light of revelations such as the copy-and-paste scandal, a careful re-examination of the performance of states is required. The overwhelming reliance of regulators on industry-funded studies, the exclusion of independent science from assessments, and the confidentiality of studies relied upon by authorities must change.”

⁴⁷ [http://www.cmec.ca/252/Programs-and-Initiatives/Assessment/Programme-for-International-Student-Assessment-\(PISA\)/PISA-2012/index.html](http://www.cmec.ca/252/Programs-and-Initiatives/Assessment/Programme-for-International-Student-Assessment-(PISA)/PISA-2012/index.html)

⁴⁸ <http://www.oecd.org/unitedkingdom/building-skills-for-all-review-of-england.pdf>

⁴⁹ <https://www.theguardian.com/environment/2017/nov/06/the-eu-and-glyphosate-its-time-to-put-childrens-health-before-pesticides>

On December 12th 2017 the EU Commission relicensed glyphosate for 5 years. The British Government ignored the plea by Baskut Tuncak and voted with the Commission, but did they read ECHA's full classification?

"ECHA's Committee for Risk Assessment (RAC) agrees to maintain the current harmonised classification of glyphosate as a substance causing serious eye damage and being toxic to aquatic life with long-lasting effects. RAC concluded that the available scientific evidence did not meet the criteria to classify glyphosate as a carcinogen, as a mutagen or as toxic for reproduction." ⁵⁰

That's why the NHS is failing; patients and staff are eating food poisoned by weedkiller

The amounts of Roundup sprayed by UK farmers on crops has gone from 226,762 kg in 1990 to 2,240,408 kg in 2016, a ten-fold increase. Breakfast cereals intended for UK children have shockingly high levels of weedkiller and foods imported from the US have weedkiller in them. The US FDA scientists couldn't find a food without weedkiller.

Dementia in the UK: predicted 1 million people with dementia in 2025 and 2 million by 2050.

Obesity in the UK: By 2025 the UK will have the highest obesity rates among both men and women in Europe, at 38%: **in contrast in France women have had virtually no increase in BMI over 40 years.** By 2030 74% men and 64% women in the UK will be overweight.

Diabetes in UK: 3 million people in 2012: 3.7 million people in 2017. Type 2 Diabetes in young people rose 41% in 3 years.

Asthma 5.4 million People in the UK are currently receiving treatment for asthma: 1.1 million children (1 in 11) and 4.3 million adults (1 in 12) (2017). It is estimated by the World Health Organisation that 300 million individuals have asthma worldwide, and that with current rising trends this will reach 400 million by 2025. Approximately 250,000 people die prematurely each year from asthma; almost all these deaths are avoidable (2013).

Allergies More than 150 million Europeans suffer from chronic allergic diseases and the current prediction is that by 2025 half of the entire EU population will be affected. The UK has some of the highest prevalence rates of allergic conditions in the world, with over 20% of the population affected by one or more allergic disorder. A staggering 44% of British adults now suffer from at least one allergy and the number of sufferers is on the rise, growing by around 2 million between 2008 and 2009 alone. Almost half (48%) of sufferers have more than one allergy.

Atopic Eczema In 45% of children, the onset of Atopic Eczema occurs during the first 6 months of life; during the first year 60% of these children are affected, and 85% are affected before the age of five. With a life time prevalence of 15-30% in children and 2-10% in adults, the incidence of AE has increased by two- to threefold in industrialized countries during the past three decades.

Allergic Rhinitis Allergic rhinitis is the most common form of non-infectious rhinitis, affecting between 10% and 30% of all adults and as many as 40% of children. Up to 57% of adult patients and up to 88% of children with AR have sleep problems, including micro-arousals, leading to daytime fatigue and somnolence, and decreased cognitive functioning.

Chronic kidney Disease Over a ten-year period from 2005 to 2015, the number of people dying from chronic kidney disease across the world rose by 31.7%. Donal O'Donoghue, President of the Renal Association said in 2016: "Around 1.2 million people are dying across the world every year because of chronic kidney disease." Kidney Research UK estimates that, in the UK alone, some three million lives are at risk from CKD with one million of these cases undiagnosed.

Deaths from Chronic Liver Disease has dramatically increased between 1970 and 2018. Liver disease is the only major cause of death still increasing year-on-year (apart from cancers!) There is direct proof that Roundup causes liver damage. Dr Antoniou's most recent research used a new cutting-edge technique and is the first to show a definite link between ultra-low dose Roundup and non-alcoholic fatty liver disease (NAFLD). This condition has increased greatly in the US and the UK.

Multiomics reveal non-alcoholic fatty liver disease (NAFLD) in rats following chronic exposure to an

⁵⁰ <https://echa.europa.eu/-/glyphosate-not-classified-as-a-carcinogen-by-echa>

ultra-low dose of Roundup herbicide. ⁵¹ NAFLD currently affects **25% of the US population and similar numbers of Europeans.**

Sight loss in UK; cataracts and macular degeneration: In 2015 2 million; 2.7 million by 2030; 4 million by 2050. As ECHA's Risk Assessment Committee stated on March 15 2017: "*glyphosate is classified as causing serious eye damage.*"⁵²

Stroke death statistics for 2016. Male: 16,023; Female: 21,748; Total: 37,771. **Men: 5,000 more deaths than from prostate cancer; Women: twice as many deaths as from breast cancer.**

Autism incidence in US: in 1970 1:10,000; in 2007 1:150; in 2009 1:100; in 2013 1:50 in 2025 1:2.

Cancers in the UK: see page 13 for CRUK figures of increasing new cancers and increasing deaths.

Cancer deaths worldwide: in 2011, 7 million deaths; predicted to rise to 12 million by 2030.

Neurological deaths are classified by the WHO in two categories. Alzheimer's and other dementias and nervous disease deaths. The latter include such disparate conditions as Parkinson's disease, motor neuron disease (MND), hereditary neuromuscular conditions, prion disorders, degenerative diseases, including Creutzfeldt Jacob's disease (CJD). Ten major developed Western countries and 10 smaller Western countries were studied. Total neurological deaths rose substantially between 1980 and 2010 in both sexes in 16 out of 20 western countries. The mortality was significantly higher in females.

"Moreover, looking back 30 or more years the concept of early dementia or the need for the creation of a Young Parkinson's Disease Society in Britain would have seemed a tautology." ⁵³

British women live shorter lives than most other Europeans and nearly 20 years in poor health⁵⁴

Spanish women live the longest, with UK longevity ranked 17th out of 28 EU nations, according to Public Health England's annual health profile

"There is no reason why we shouldn't be as healthy as anywhere in Europe," said Prof John Newton, director of health improvement at PHE. ⁵⁵ *"Many of the causes of chronic, long-term diseases in the UK which shorten lives are preventable. **Obesity** is causing a big surge in the numbers of people developing type 2 diabetes. The report shows the numbers with diabetes are expected to rise swiftly, from just under four million last year to nearly five million in 2035. Along with alcohol, obesity is also one of the factors behind the rise in breast cancer. Apart from the human cost, the bill for the NHS will be huge... The list of the most common site-specific cancers remained unchanged from 2015 in both sexes. Lung cancer, colorectal and anal cancer, and leukaemia and lymphomas were all in the top ten leading causes of death in 2016... Prostate cancer and breast cancer remained amongst the top ten leading causes of death for males and females respectively, both ranked seventh, the same as in 2015. Lung cancer deaths remained the third most common cause of death for males and sixth most common for females in 2016. There has also been an increase in the death rate from lung cancer (8%), kidney disease and other diseases of the urinary system (38%) and chronic lower respiratory disease (18%). When deaths from all cancers are grouped together, cancer accounted for 25.6% of all deaths in females and 30.3% of all deaths in males in 2016. This would make it the leading cause, in 2016, for both sexes. The leading cause of death for women is dementia and Alzheimer's disease, responsible for 15.8% of deaths, with heart disease second at 8.3%. There has been an increase in the death rate from dementia and Alzheimer's of more than 60% and deaths from liver disease have increased by 12%.*

Women in 2014-16 were spending nearly 20 years of their life in poor health (19.3 years), while men spent just over 16 years in poor health, according to data from the Office for National Statistics included in the report. The leading cause of poor health, responsible for more than 22% of the pain and suffering, is low back and neck pain, which can be caused by a number of things, including injury and rheumatoid arthritis. After that come skin diseases such as acne and psoriasis, says the report. Third for men is sight and hearing loss, while for women it is migraine. Fourth for both is depressive

⁵¹ <http://www.nature.com/articles/srep39328>

⁵² <https://echa.europa.eu/-/glyphosate-not-classified-as-a-carcinogen-by-echa>

⁵³ <https://www.sciencedirect.com/science/article/pii/S0033350612004672>

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<http://click.mail.theguardian.com/?qs=bd4bb2980cde506285bbd7433f46e1dcb58fad37ae94d5a5d26dba313aef8ec8b4af965a3c4068bc7770cb3208949b39>

⁵⁵ <https://www.gov.uk/government/publications/health-profile-for-england-2018/chapter-2-trends-in-mortality>

disorders. Long-term conditions such as diabetes, high blood pressure and cancers underlie some of these problems.”

The *Guardian* Management is supported by the Bill and Melinda Gates Foundation and the Rockefeller Foundation.⁵⁶ The Gates Foundation funds and works closely with those present at the Bilderberg Meetings whose objectives are to control the world. Monsanto, Cargill, Syngenta, DuPont, Bayer, Nestle, Mondelez and Mars are among the Corporations. “*The foundation is also pushing GM research in the UK. In 2012, a team of British plant scientists at the John Innes Centre in Norwich won a \$10 million grant to develop GM cereal crops; this was one of the largest single investments in GM in the UK... The Swindon-based Biotechnology and Biological Sciences Research Council, which also promotes GM research, received an \$8 million grant in 2010 to “support high quality research on sustainable crop production in sub-Saharan Africa and South Asia... In June 2014, the BMGF gave \$5.6 million to another major GM developer and advocate, Cornell University, “to support a global agricultural communications platform that will improve understanding of science-based agricultural technologies”.*

The aim of the billionaires is to reduce the population of the poor and allow the rich to inherit the earth. Unfortunately, Monsanto’s weedkiller Roundup, as revealed in the sealed secret studies, doesn’t distinguish between the rich and the poor. Bill Gates best friend Paul Allen died in 2018 of Non-Hodgkin’s Lymphoma aged 65. It had been diagnosed in 2009.

Baumhedlundlaw.com have announced the schedule of court cases against Monsanto⁵⁷

“Monsanto Company (now Bayer) is facing thousands of lawsuits across the United States filed by individuals who allege exposure to Roundup weed killer caused them to develop non-Hodgkin lymphoma. The first trial against Monsanto ended on August 10, 2018 with a unanimous jury verdict of \$289 million for a Benicia, California school district groundskeeper, Dewayne “Lee” Johnson. Most of the Roundup cancer lawsuits are filed in various state courts. Others have been consolidated in a federal multidistrict litigation (MDL) in Northern California. Below you will find the Monsanto Roundup trial schedule for cases throughout the U.S. This page will be updated on a monthly basis.”

Federal Monsanto Roundup Multidistrict Litigation (MDL) Schedule

Federal MDL in Roundup Products Liability Litigation

U.S. District Court for the Northern District of California

San Francisco, CA

Lead Case No. 3:16-md-02741

The Honorable Judge Vince Chhabria is the presiding judge. As of October 2018, 1,654 plaintiffs with non-Hodgkin lymphoma had filed cases in federal courts across the country. These cases are consolidated before the U.S. District Court for the Northern District of California.

Missouri: Thousands of cases are filed in St. Louis City Court and St. Louis County Court.

Questions in the House of Lords on Roundup on 31 October 2018. Replies by Lord Gardiner of Kimble, the Under Secretary of State for Defra

QUESTION Baroness Jones of Moulsecoomb: “*I thank the Minister for his reply. I am sure that it is general knowledge that the landmark verdict in a case in the United States was that Roundup and glyphosate herbicides can cause cancer, and Monsanto has acted with “malice and oppression” by selling it in full awareness of the risks. Given that here in the UK farmers have to keep such pesticides under lock and key in a steel cupboard, how can it be all right to sell it freely in the supermarkets on open shelves? Is that not a risk for both shoppers and workers?”*

⁵⁶ <http://www.globaljustice.org.uk/sites/default/files/files/resources/gated-development-global-justice-now.pdf>

⁵⁷ <https://www.baumhedlundlaw.com/toxic-tort-law/monsanto-roundup-lawsuit/monsanto-court-papers/monsanto-roundup-trial-schedule/>

REPLY Lord Gardiner of Kimble: “My Lords, the recent case was a civil court case with a non-expert jury. There was no new scientific evidence presented regarding safety as part of the court case, and so it does not raise doubts about the scientific assessments underpinning the EU approval decision. Of course, we have in this country, and through the EU as well, very strict rules about authorisations and approvals. There are many requirements for Roundup, and it is important that it is used responsibly, but it is safe.”

When is the *Guardian* Management going to tell their readers the truth?

The reports by Arthur Neslen, the *Guardian*'s Europe Environment Correspondent on the long scandal of the registration of glyphosate by the European Commission (supported by the UK) and Carey Gillam's accounts of the successful Court Case against Monsanto in California have been hidden away in the *Guardian*.

Carey Gillam is the Research Director of the US Right to Know and she wrote “Whitewash: The Story of a Weed Killer, Cancer and the Corruption of Science” (Island Press, 2017)

Gillam's book received the prestigious Rachel Carson Book Award from the Society of Environmental Journalists for unveiling decades of corporate secrets and deceptive tactics by powerful pesticide companies, and how the corporate pursuit of profits has taken priority over protection of the public. “*This timely and well-organized examination of one of the world's most compelling controversies over science and agriculture is well-researched and beautifully written and is accessible to readers who don't have extensive science backgrounds,*” the judges wrote.

The Monsanto Papers have been collected on the US RTK website⁵⁸

Roundup (Glyphosate) Cancer Cases: Key Documents & Analysis. Like the Baum Hedlund documents they are updated regularly.

Rosemary Mason 02/01/2019

Attached: Glyphosate-based herbicides poisoned our nature reserve

⁵⁸ <https://usrtk.org/monsanto-papers/>