

## **Glyphosate is an antibiotic and creates Roundup-resistant super weeds. Aluminium in vaccines and high levels of aluminium in autism and Alzheimer's disease**

### **How the British Government teamed up with the Corporations**

It is scandalous that within a week of the Royal Society of Medicine Conference on Pesticides,<sup>1</sup> when independent scientists warned about the toxic chemical cocktail sprayed on British food, the European Member States, including the British Government, voted by a very narrow margin to renew the licence for glyphosate for 5 years with no conditions attached to the renewal. This bought a political storm in Germany. Politico reported: <sup>2</sup> *"Moments after the food committee made its decision, German Environment Minister Barbara Hendricks from the Social Democrats angrily asserted that she had been double-crossed on Berlin's position by conservative Agriculture Minister Christian Schmidt. In an unusually damning statement, she said Schmidt had confirmed in a text message to her that Germany would abstain. Simultaneously, a different order to vote in favor of renewing the herbicide was sent to officials in Brussels attending the vote."* France and Italy still plan to phase out glyphosate within three years. Its non-agricultural use has already been banned in several European Countries.

### **The Royal Society of Medicine Conference on pesticides safety in November 2017**

At the Royal Society of Medicine Conference on pesticide safety the Soil Association presented alarming figures. Under FOI request Fera Science (previously a government agency, now privatized) provided figures that showed that the number of active ingredients applied to wheat had risen **12-fold** from 1.7 in 1974 to 20.7 in 2014; that those applied to potatoes had risen **5.8 times** from 5.3 in 1975 to 30.8 in 2014; that those applied to onions and leeks had risen **18-fold** from 5.3 in 1975 to 30.8 in 2014? Pesticides are tested individually but no one tests the cocktail of pesticides to which humans and the environment are exposed. **The Chief Scientist for Defra Professor Ian Boyd** pointed out that once a pesticide is approved there is no follow up. Dr Michael Antoniou, head of the Gene Expression and Therapy Group at King's College London, told the Royal Society of Medicine conference that the adjuvants in commercial pesticide formulations can be toxic in their own right and in some cases more toxic than the declared active ingredients. Yet only the active ingredients are tested and assessed for long-term health effects in the regulatory process. Dr Antoniou also said that research on hormone-disrupting chemicals, including pesticides, shows that very low realistic doses can be more toxic than higher doses. Professor Carl Leifert talked about pesticides linked to low sperm quality. In a recent study, published in JAMA Internal Medicine, Harvard researchers followed 325 women at an infertility clinic and found that women who regularly ate pesticide-treated fruits and vegetables had lower success rates getting pregnant with IVF, while women who ate organic food had reduced risk of pregnancy loss and increased fertility.<sup>3</sup> Dave Bench Head of UK Chemicals Regulation Division described the regulatory system for pesticides, which he portrayed as robust and as balancing the risks of pesticides against the benefits to society.

### **NGOs in Europe filed a complaint for plagiarism**

NGOs have filed their complaint alleging plagiarism by the European Food Safety Authority and the German Federal Institute for Risk Assessment, BfR.

<sup>1</sup> <http://gmwatch.org/en/news/latest-news/17988>

<sup>2</sup> <https://www.politico.eu/article/glyphosate-renewal-shakes-germany-france-italy/>

<sup>3</sup> <https://jamanetwork.com/journals/jamainternalmedicine/article-abstract/2659557>

In their action, filed in separate courts in Austria, Germany, Italy and France, the NGOs cite some of the information in the "Monsanto papers", as well as an opinion by a plagiarism researcher, Stefan Weber. This is in addition to their own research. Their lawyer, Josef Unterweger, will explain to the media the basis of the complaint.<sup>4</sup>

### **European Commission broke its own rules to renew the licence for glyphosate**

In renewing the license for glyphosate the European Commission had broken its own rules. The two successive holders of Head of Pesticides and Biocides did not/do not have "appropriate degrees of specialist knowledge and technical expertise," as specified in the EC regulations<sup>5</sup> (Michael Flüh who held the post for 10 years wasn't even a scientist; he was replaced by Klaus Berend, an expert in Plastics in Aviation). This confirms that the European Regulators used the European Glyphosate Task Force assessments by cutting and pasting their work.

European Glyphosate Task Force also ensured that MEPs couldn't interfere. On its website it says: "The renewal process is legislated for by means of a Commission Regulation (No. 1107/2009). The European Parliament has no official role in this particular type of legislative procedure."<sup>6</sup>

### **What are The Monsanto Papers?**

Monsanto was anxious to get the licence renewed before the lawsuit brought by US Attorneys Baum Hedlund against Monsanto by plaintiffs who complain that Roundup caused cancer in them or their loved ones had finished.

On March 13th, 2017, U.S. District Judge Vince Chhabria ruled — over Monsanto's objections — that certain documents obtained by plaintiffs through discovery could be unsealed. The documents listed below include discovery materials, transcripts of court proceedings, depositions and other case-related items.<sup>7</sup>

Baum Hedlund Attorneys said: "**The Monsanto Papers** tell an alarming story of ghostwriting, scientific manipulation, collusion with the Environmental Protection Agency (EPA), and previously undisclosed information about how the human body absorbs glyphosate. These documents, which Monsanto does not want you to see, provide a deeper understanding of the serious public health consequences surrounding Monsanto's conduct in marketing Roundup." Dr. Donna Farmer, Monsanto's Chief Scientist, discusses the potential adverse effects of the formulated Roundup product, conceding that: "you cannot say that Roundup is not a carcinogen...we have not done the necessary testing on the formulation to make that statement."

European Food Safety Authority (EFSA) insisted that the debate (into the **Monsanto Papers** in the European Parliament) had little bearing on its finding that glyphosate is safe, "because its verdict was based mainly on its assessment of the original studies, not reviews of studies."

### **NGOs also initiated the International Monsanto Tribunal October 2016**

NGOs from around the world with France and Germany in the forefront had initiated the International Monsanto Tribunal to hold Monsanto accountable for its actions.<sup>8</sup> The five

<sup>4</sup> <http://gmwatch.org/en/news/latest-news/16755-ngos-press-charges-against-monsanto-german-government-institute-and-efsa-over-glyphosate-assessment>

<sup>5</sup> [https://ec.europa.eu/info/sites/info/files/european-commission-decision-on-middle-management-staff\\_3288\\_c\\_2016\\_en.pdf](https://ec.europa.eu/info/sites/info/files/european-commission-decision-on-middle-management-staff_3288_c_2016_en.pdf)

<sup>6</sup> [http://www.glyphosate.eu/system/files/sidebox-files/renewal\\_process\\_for\\_glyphosate\\_faqs\\_0.pdf](http://www.glyphosate.eu/system/files/sidebox-files/renewal_process_for_glyphosate_faqs_0.pdf)

<sup>7</sup> <https://www.baumhedlundlaw.com/toxic-tort-law/monsanto-roundup-lawsuit/monsanto-secret-documents/>

<sup>8</sup> <http://www.monsanto-tribunal.org>

judges gave their verdict on April 2017. <sup>9</sup> **They concluded that Monsanto's activities have a negative impact on basic human rights. Besides, better regulations are needed to protect the victims of multinational corporations. Eventually, international law should be improved for better protection of the environment and include the crime of ecocide.**

**UN Rapporteur: Report of the Special Rapporteur on the right to food: Pesticides are "global human rights concern" and UN experts urge new treaty**

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. 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*”. <sup>10</sup>

**GENEVA (7 March 2017)** – Two United Nations experts are calling for a comprehensive new global treaty to regulate and phase out the use of dangerous pesticides in farming, and move towards sustainable agricultural practices. They say: “*excessive use of pesticides are very dangerous to human health, to the environment and it is misleading to claim they are vital to ensuring food security.*” Chronic exposure to pesticides has been linked to cancer, Alzheimer’s and Parkinson’s diseases, hormone disruption, developmental disorders and sterility. Farmers and agricultural workers, communities living near plantations, indigenous communities and pregnant women and children are particularly vulnerable to pesticide exposure and require special protections. The experts warn that certain pesticides can persist in the environment for decades and pose a threat to the entire ecological system on which food production depends. The excessive use of pesticides contaminates soil and water sources, causing loss of biodiversity, destroying the natural enemies of pests, and reducing the nutritional value of food. The impact of such overuse also imposes staggering costs on national economies around the world.

The experts say the use of neonicotinoid pesticides is particularly worrying because they are accused of being responsible for a systematic collapse in the number of bees around the world. **For example, heavy use of these insecticides has been blamed for the 50 per cent decline over 25 years in honeybee populations in both the United States and the United Kingdom of Great Britain and Northern Ireland.** Such a collapse, they say, threatens the very basis of agriculture as 71% of crop species are bee-pollinated.

**Baskut Tuncak wrote in the *Guardian* on 06/11/2017: The EU and glyphosate: it's time to put children's health before pesticides** <sup>11</sup>

*“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.*

*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*

<sup>9</sup> [http://www.monsanto-tribunal.org/upload/asset\\_cache/1016160509.pdf](http://www.monsanto-tribunal.org/upload/asset_cache/1016160509.pdf)

<sup>10</sup> <http://www.pan-uk.org/site/wp-content/uploads/United-Nations-Report-of-the-Special-Rapporteur-on-the-right-to-food.pdf>

<sup>11</sup> <https://www.theguardian.com/environment/2017/nov/06/the-eu-and-glyphosate-its-time-to-put-childrens-health-before-pesticides>

*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.*

*In light of revelations such as the copy-and-paste scandal, a careful reexamination 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.”*

### **Don't pollute my future! The impact of the environment on children's health**

A Report by the World Health Organization published in March 2017. This [report](#) focused on a range of environmental risks, the cost of a polluted environment adds up to the deaths of 1.7 million children every year. <sup>12</sup>

### **Monsanto Isn't Feeding the World—It's Killing Our Children<sup>13</sup>**

Katherine Paul Organic Consumers Association: (Ronnie Cummins International Director was on the Steering Committee of the Monsanto Tribunal) 09/03/2017. “Two new reports published in recent weeks add to the already large and convincing body of evidence, accumulated over more than half a century, that agricultural pesticides and other toxic chemicals are poisoning us. Both reports issue scathing indictments of U.S. and global regulatory systems that collude with chemical companies to hide the truth from the public, while they fill their coffers with ill-gotten profits.”

## **One physician's perspective of cancers: from England into Wales 1965-1969**

During my medical training in Leeds, in 1965 I spent a week at a busy General Practice outside Hull. Dr. David Metcalfe my GP trainer (who later became Prof of General Practice in Manchester) told me that in the whole practice they had only 12 new cancers a year. So he emphasized that it was important not to miss one.

In 1969, only four years later, I came to Cardiff to work at the University Hospital of Wales. I was surprised to find that cancers were common: during the time I worked there some hospital staff and/or their relatives developed a variety of cancers.

At that time I had no idea that Doug Gowan, a toxicologist who was employed by the NFU to investigate the deaths of 12 cows near Kenfig, had uncovered Monsanto's illegal dumping of chemical waste from its factory in Newport (dioxins, PCBs, Agent Orange) into Brofiscin Quarry and it was leaking into the Cardiff water supply. <sup>14</sup> According to engineering company WS Atkins, in a report prepared for the agency and the local authority in 2005 **but never made public**, the site contains at least 67 toxic chemicals. Seven PCBs have been identified, along with vinyl chlorides and naphthalene. In 2007 previously unseen Environment Agency documents from 2005 show that almost 30 years after being filled, Brofiscin is one of the most contaminated places in Britain. The

<sup>12</sup> <http://www.who.int/ceh/publications/don-t-pollute-my-future/en/>

<sup>13</sup> <https://www.organicconsumers.org/blog/monsanto-isn%E2%80%99t-feeding-world%E2%80%94it%E2%80%99s-killing-our-children>

<sup>14</sup>

[http://www.theecologist.org/The\\_Brofiscin\\_Monsanto\\_Files/777777/burying\\_the\\_truth\\_the\\_organal\\_ecologist\\_investigation\\_into\\_monsanto\\_and\\_brofiscin\\_quarry.htm](http://www.theecologist.org/The_Brofiscin_Monsanto_Files/777777/burying_the_truth_the_organal_ecologist_investigation_into_monsanto_and_brofiscin_quarry.htm)

unlined quarry is still leaking, the report says. "Pollution of water has been occurring since the 1970s, the waste and groundwater has been shown to contain significant quantities of poisonous, noxious and polluting material, pollution of... waters will continue to occur." The actor Michael Sheen recently highlighted the 50<sup>th</sup> anniversary of Monsanto's appalling crime in his Raymond Williams Memorial Lecture.<sup>15</sup> **Monsanto's toxic PCBs are said to have contaminated an aquifer that is the reserve water supply for Cardiff and Birmingham.** "This is an episode that is often forgotten in accounts of Monsanto's irresponsible activities across the globe – yet the people living near Brofiscin Quarry will be living with the consequences for many years into the future."

### **England has used Wales for manufacture and disposal of chemicals**

England has used Wales in which to locate the majority of their chemical factories, as far away from Westminster as possible ...and to make as much money as possible, regardless of the effects on human health and the environment. During WWII Churchill established a factory for making Mustard Gas at in Flintshire.<sup>16</sup> In 1949 Monsanto set up a factory in Newport, Wales. From 1949 until 1977 it manufactured PCBs and a number of other dangerous chemicals. Monsanto was found to be dumping toxic waste in the River Severn, public waterways and sewerage. After that they paid a contractor to illegally dump "thousands of tons of cancer-causing chemicals - among them PCBs, dioxins and Agent Orange derivatives" at two quarries in Wales: Brofiscin (80,000 tonnes) and Maendy (42,000 tonnes) between 1965 and 1972.<sup>17</sup> In 1968 US documents showed that Monsanto tried to decide whether or not to come clean about the dangers of the chemicals. They stopped making PCBs in Anniston US in 1971 because of scandals about PCBs on the health of the population and wildlife. However, the British government led by Ted Heath, despite knowing their effects, agreed to ramp up production of PCBs at their Monsanto plant in Newport.

**Alabama is more than 50 million square miles. Wales is 8,000 square miles.**

Dow Corning started silicone elastomer production in 1952 at a site in Barry close to Cardiff.<sup>18</sup> In 1970, when the wind was in the wrong direction the smell of the sickly-sweet toxic emissions became a part of life at Llandough Hospital, Penarth, just as the smell of chocolate had been from the Roundtree Factory near York County Hospital.

In 2012, Eastman Chemicals Company bought the old Solutia (Monsanto) site in Newport with a £4.1 mill grant from the Welsh Assembly Government. "Without Welsh Government support, the sources said, Solutia considered locating the project at a competing plant in Alabama, United States."<sup>19</sup> The UK Health and Safety Executive examined the site and certified it free from previously manufactured chemicals (PCBs, Agent Orange, dioxins).<sup>20</sup>

However, the Eastman Board of Directors is a 'who's who' of executives from the giant American Chemical Corporations: Brett D Begemann from Monsanto and executives from Dow, Dow Corning, General Mills, Cargill etc.

<sup>15</sup> <http://www.gmwatch.org/en/news/latest-news/17989-actor-michael-sheen-slams-monsanto-for-causing-pollution-in-wales>

<sup>16</sup> [https://en.wikipedia.org/wiki/M.\\_S.\\_Factory\\_Valley](https://en.wikipedia.org/wiki/M._S._Factory_Valley)

<sup>17</sup> <https://www.theguardian.com/environment/2007/feb/12/uknews.pollution1>

<sup>18</sup> <https://www.dowcorning.com/content/about/aboutcomm/barrycommunityhomepage.aspx>

<sup>19</sup>

[http://www.southwalesargus.co.uk/news/10382004.\\_4m\\_grant\\_helps\\_secure\\_more\\_than\\_200\\_Newport\\_jobs/](http://www.southwalesargus.co.uk/news/10382004._4m_grant_helps_secure_more_than_200_Newport_jobs/)

<sup>20</sup>

[http://www.eastman.com/Company/Worldwide/our\\_sites/Documents/Newport\\_HSE\\_Review.pdf](http://www.eastman.com/Company/Worldwide/our_sites/Documents/Newport_HSE_Review.pdf)

**What acts of chemical terrorism are being planned to launch on people living in Wales just to fill their coffers? When Monsanto is so closely involved, are they really making the chemicals that they claim?**

#### **Explosion at Eastman's Kingsport Factory US in October 2017**

An explosion occurred at Eastman's Kingsport Factory, Tennessee on October 4<sup>th</sup> 2017<sup>21</sup> that necessitated highway closures and evacuation of personnel; the Newport site is in a built up area and is surrounded by houses. How safe is that?

The Gower Chemical Company was founded in 1978 at Crymlyn near Swansea and in 2014 was purchased by a German family firm Scheruhn. They own Fluorchemie, a leading producer of Hydrofluoric Acid in Europe and key supplier to Gower Chemicals. In 2016 Johannes Scheruhn, one of the owners and on the Board of Directors purchased a Hydrofluoric Acid Dilution plant from Yorkshire.<sup>22</sup> Hydrogen fluoride is used to make refrigerants, **herbicides**, pharmaceuticals, high-octane gasoline, aluminum, plastics, electrical components, and fluorescent light bulbs. Sixty percent of the hydrogen fluoride used in manufacturing is for processes to make refrigerants. Hydrofluoric (HF) acid, one of the strongest inorganic acids, is a precursor to almost all fluorine compounds. "In a natural disaster, you could be exposed to high levels of hydrogen fluoride when storage facilities or containers are damaged and the chemical is released. This release could occur at an industrial site or even a retail location." That too is in a built up area close to the main dual carriageway from Swansea and is surrounded by houses.

#### **Swansea: the Japanese knotweed capital of Europe**

After working in Cardiff, in 1973 I was moved to Swansea. Swansea had been sprayed with Roundup to attempt to eradicate invasive weeds for an unknown number of years. The Council hadn't kept records. So we read Anthony Samsel's first paper in 2013 with considerable interest. Samsel A and Seneff S (2013) Glyphosate's suppression of Cytochrome P450 enzymes and amino acid biosynthesis by the gut microbiome: Pathways to Modern Diseases "Consequences are most of the diseases and conditions associated with a Western diet, which include gastrointestinal disorders, obesity, diabetes, heart disease, depression, autism, infertility, cancer and Alzheimer's disease."<sup>23</sup> These diseases were identical to the ones we had in Swansea.

I asked Anthony why we should have these diseases without growing GM Roundup Ready crops; he gave me a link to the Defra Pesticides Residues in Food website<sup>24</sup> and pointed out that some UK farmers had been spraying glyphosate on crops since 1980<sup>25</sup> but the US farmers had not started GM Roundup Ready crops until 1996.

#### **From 2013 onwards, we ate organic food but we couldn't escape Roundup spray**

Swansea turned out to be the test bed of Monsanto's flagship herbicide Roundup. Roundup was sprayed repeatedly on plants; the plants became resistant to the chemical and just grew bigger and spread. In the 1969 edition of the Marshall Cavendish Illustrated Encyclopedia of Gardening, Japanese Knotweed and Himalayan Balsam were still being recommended by the RHS as suitable plants for gardens. The Wildlife and

<sup>21</sup> <http://www.wcyb.com/news/tennessee/kingsport/explosionat-eastmanchemicalcoinc-kingsport/631289601>

<sup>22</sup> <http://www.walesonline.co.uk/business/business-news/gower-chemicals-sold-scheruhn-industrie-7061641>

<sup>23</sup> <http://www.mdpi.com/1099-4300/15/4/1416>

<sup>24</sup> <https://www.gov.uk/government/collections/pesticide-residues-in-food-results-of-monitoring-programme>

<sup>25</sup> <http://www.hgca.com/media/185527/is02-pre-harvest-glyphosate-application-to-wheat-and-barley.pdf>

Countryside Act 1981 classified them as invasive species and by 2015 landowners became responsible in Law to eradicate them. Thus the Monsanto herbicide Roundup succeeded in creating a number of invasive plants like the super-weeds in the GM cropping system in the US. Roundup has made them trillions of pounds over many years.

Swansea is dubbed 'the Japanese Knotweed Capital of Europe'. Between April 2016 and end of July 2017, Monsanto's contractor Complete Weed Control has sprayed streets and pavements in Swansea with more than 3 tonnes of Roundup including schools, playgrounds, playing fields, Hospitals and Old People's Homes at the request of the Council in a war on weeds. Private contractors advertise a service to homeowners to eradicate Japanese Knotweed from gardens with Roundup or other glyphosate-based herbicide (GBH). Estate agents demand that before they will put a house for sale. The Forestry Commission can step in if owners of woodland refuse to eradicate invasive weeds; gardeners use various forms of GBH to put on their gardens because Monsanto advertises it as safe and is "*rapidly broken down in the soil by micro-organisms*".

We have been writing to HSE and CRD since February 2014 about our nature reserve. Glyphosate was present in tap water and river water in August 2013 and by August 2014 it had increased 10-fold in tap water. I sent our photo-journal: The Year of the Bumblebee 2010 to the late Dr Maewan Ho in 2013 when it was obvious that Roundup was destroying biodiversity. She helped me to write an article (published in 2014) for the former Institute of Science in Society<sup>26</sup>

#### **HSE assessed the Eastman Site in Newport as safe and free of chemicals**

But HSE has displayed no concern about our complaints since 2014. They are prepared to protect the agrochemical industry rather than the people and the environment.

**Subject:**Concern submitted to HSE

**Date:**Mon, 13 Nov 2017 12:45:07 +0000

**From:**noreplyconcerns@hse.gov.uk

**To:**rosemary.mason01@btinternet.com

Dear Dr Mason,

Thank you for your concern about glyphosate use in Swansea dated 27 October 2017. We have considered the information you have provided and consulted other colleagues in HSE. We will not be investigating as there doesn't appear to be any breach of legislation enforced by HSE.

You have received HSE's comments and views about the product and its application in earlier correspondence.

Regards

Concerns Team

Health and Safety Executive

This is a no-reply email account. Replies will not be received at HSE

#### **There is a breach of legislation by HSE: new labelling rules from 2012**

The Chemicals Regulation Directorate, (CRD) issued new labelling rules for all herbicides used on non-porous hard surfaces which manufacturers must comply with before June 1 2012. "*Restrictions were introduced to ensure pesticide run-off from non-porous hard surfaces to water courses is minimal and can be predicted by the HARDSPEC model used in assessing pesticides for approval. Targeted treatment of weeds must be undertaken on roads, pavements, concrete and paved areas and drains must not be over-*

<sup>26</sup> [http://www.i-sis.org.uk/How\\_Roundup\\_Poisoned\\_My\\_Nature\\_Reserve.php](http://www.i-sis.org.uk/How_Roundup_Poisoned_My_Nature_Reserve.php)

*sprayed. Adopting the new rules will minimise the use of pesticides as required under the Sustainable Use Directive and will also save money by reducing unnecessary herbicide use in overall spraying. They will reduce run-off to drains and water bodies as required by the Water Framework Directive. The rules implement Best Practice advised by Monsanto into a mandatory legal requirement."*

**The British Government failed to implement legislation on the Sustainable Use of Pesticides in 2009: instead Defra said it would be up to industry to decide.**

Article 11 Use of pesticides in specific areas

EU Directive Advice: Use of pesticides can be particularly dangerous in very sensitive areas such as Natura 2000 sites protected in accordance with Directives 79/409/EEC and 92/43/EEC. In other places such as public parks and garden, sports and recreation grounds, school grounds and children's playgrounds, and in the close vicinity of healthcare facilities, the risks from exposure to pesticides is high. In these areas, the use of pesticides should be minimised or prohibited. When pesticides are used, appropriate risk management measures should be established and low-risk pesticides as well as biological control measures should be considered in the first place.

Government Response: We do not consider it necessary to prohibit the use of pesticides in public spaces or conservation areas or to impose new statutory controls on pesticide use in these areas. We believe that the UK can meet its obligations under the Directive through existing statutory and voluntary controls and develop additional voluntary measures.

**Pesticide drift is the aerial movement and unintentional deposit of pesticide outside the target area: it results in heavy contamination of people and the environment**

When Roundup is sprayed on weeds, the particles drift in the air, are blown by the wind and come down in the rain. Swansea is wet and windy: from January 1<sup>st</sup> 2016 to November 29<sup>th</sup> 1,417 mm (about 56 inches) of rain were recorded.

*"There are two forms of pesticide drift. **Particle drift** is the movement of pesticide droplets or solid particles outside the area being treated. Coarser droplets move short distances and fall close to the point of release. Finer particles (i.e. less than 200 microns) can remain suspended on air currents for long periods of time and can be carried far outside of the target area. For example, a 100 micron droplet takes 11 seconds to fall three metres in still air, and will drift more than 20 metres in an 8 km/h wind. **Vapour drift** is the movement of pesticide vapours outside the area being treated. Vapour drift is invisible and can have a considerable impact. Vapours are created when spray droplets evaporate both at the time of application and for some time after the spray has dried on plant or soil surfaces. The potential for vapour drift is more a product of the volatility of the active ingredient, the formulation (e.g. esters) and environmental conditions (e.g. hot and dry) than the equipment used."*

I told Prof Gilles-Eric Séralini (CRIIGEN France) about a new paper from Argentina (where they grow almost exclusively GM Roundup Ready Soy): Behavioral impairments following repeated intranasal glyphosate-based herbicide administration in mice.

This research paper explains what happens to people working outside when Roundup is being sprayed; it goes straight into the brain.<sup>27</sup>

*Journal of Neurotoxicology and Teratology* 20/10/2017

*"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 could be a consequence of alterations in neurotransmission systems comprising the GABAergic, dopaminergic, serotonergic and/or cholinergic systems."*

<sup>27</sup> <https://www.sciencedirect.com/science/article/pii/S0892036217301526>



Prof Séralini made a comment that “*they used big doses*”. When I told him that 3 tonnes of Roundup were sprayed in 15 months his only comment was: “a crime”.

### **Glyphosate and modern diseases Samsel and Seneff IV 2016** <sup>28</sup>

The diseases that Samsel & Seneff described between 2013 and 2016 associated with glyphosate once again match those we have in Swansea. Samsel, with the help of his Senator, had been trying to get the secret long-term studies concealed by the US EPA under the FOI Act. <sup>29</sup>

The Federal Agency finally supplied these documents (in excess of 100,000 pages) in 2015. The cataract study (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). “*In a long-term study conducted by Monsanto between 1987 and 1989 [15], glyphosate was found to induce a statistically significant ( $P < 0.05$ ) cataractous lens formation, highest in male rats.*”

The European Chemicals Agency (ECHA) corroborates this in their ‘**classification of glyphosate as causing serious eye damage**’.<sup>30</sup> A 2016 study by the WHO also confirmed that the incidence of cataracts had greatly increased: ‘A global assessment of the burden of disease from environmental risks’ 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. The NHS waiting list for cataract operation is growing massively.

ECHA also classifies glyphosate as being **toxic to aquatic life with long-lasting effects**. The long term spraying of Roundup herbicide to eradicate Giant Hogweed near to Usk-on-Wye has wiped out salmon and trout fry. In 2017 the numbers of salmon and trout in some Welsh Rivers are described as critical.

### **Wales is not alone in its loss of biodiversity**

We thought that we had the monopoly on Roundup spraying and loss of insects in Wales. However, in letters published in *The Guardian* 23/11/2017, we are not alone. Insects and birds have been silently disappearing from all around Britain. <sup>31</sup>

### **Cancer Research UK: former Chairman of Cancer Research UK worked for the Agrochemical Industry**

Michael Pragnell, former Chairman of Cancer Research UK was founder of Syngenta and former Chairman of CropLife International. It was formed in 2001 from BASF, Bayer, Dow, DuPont, FMC Corp, Monsanto, Sumitomo and Syngenta. The CRUK website says that there is no convincing evidence that pesticides cause cancer. Instead CRUK links cancer to alcohol and obesity. Cancer Research UK figures for 2014 (that don’t seem to have been published by the Corporate Media) shows the huge numbers of cancers that are killing people in the UK. The NGOs in Europe say the people of Britain are being used as LAB RATs.

### **In 2014 in Britain there were 13,605 new cases of NHL (4,801 deaths)** <sup>32</sup>

41,265 new cases of bowel cancer (15,903 deaths); 12,523 new cases of kidney cancer (4,421 deaths); 5,550 new cases of liver cancer (5,091 deaths); 5,419 new cases of

<sup>28</sup> <http://www.amsi.ge/jbpc/31515/11SA15R.pdf>

<sup>29</sup> <http://gmwatch.org/en/news/latest-news/16515-monsanto-s-secret-studies-reveal-glyphosate-link-to-cancer>

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

<sup>31</sup> <https://www.theguardian.com/environment/2017/nov/23/where-have-all-our-insects-and-birds-gone#img-1>

<sup>32</sup> <http://www.cancerresearchuk.org/health-professional/cancer-statistics/statistics-by-cancer-type/non-hodgkin-lymphoma>

melanoma (2,459 deaths); 3,404 new cases of thyroid cancer (376 deaths); 10,063 new cases of bladder cancer (5,369 deaths); 9,324 new cases of uterine cancer (2,166 deaths); 7,378 cases of ovarian cancer (4,128 deaths) 9,534 new cases of leukaemia (4,584 deaths); 55,222 new cases of invasive breast cancer (11,433 deaths); 46,690 new cases of prostate cancer (11,287 deaths); 8,919 new cases of oesophageal cancer (7,790 deaths) and 5,501 new cases of myeloma (2,928 deaths); 2,418 new cases of testicular cancer (60 deaths). In the US in 2014 there were 24,050 new cases of myeloma.

### **Syngenta's factory in Huddersfield makes the toxic herbicide paraquat for export**

In 2014 there was an accident at the Syngenta factory in Huddersfield that manufactures paraquat, an herbicide banned in the EU. *'Syngenta has exported 122,831 tonnes of paraquat from the UK since 2015, an average of 41,000 tonnes a year, according to export licensing data analysed by the Swiss NGO Public Eye and shared with the Guardian. Since 2015, when a facility in Belgium stopped exporting paraquat, all EU exports of the pesticide have come from Syngenta's UK base, according to Public Eye.'* **Just like PCBs!** Syngenta's herbicides atrazine and simazine were banned in the EU in 2004: the UK was given exceptions for one year only. However Defra (and farmers) continued to use up the stocks until 2008 (see Fera Pesticide Usage Statistics) when the Environment Agency measured high levels of atrazine at 25% of their monitoring sites. The Environment Agency Groundwater Database had recorded a maximum concentration of atrazine of 13.04µg/l. That is 130 times the EU legal limit for groundwater (2004/248/EC).<sup>33</sup> The Report remains unpublished.

## **Aluminium in vaccines and high levels of aluminium in autism and Alzheimer's disease**

Aluminum in the central nervous system (CNS): toxicity in humans and animals, vaccine adjuvants, and autoimmunity was published in Canada in 2014.<sup>34</sup> *"Today, babies receive unprecedented multiple doses of aluminum-adjuvanted **vaccines**. The **hepatitis B vaccine** routinely given to babies within hours of their birth, for example, contains 250 micrograms of nanoparticles of the metal and this dose is repeated at two and six months of age. Each dose of **DTaP vaccine** given to babies at two, four, six and 15 months of age contains an additional 625 micrograms of the toxic metal. Each dose of Hib vaccine given at two, four and 12 months contains another 225 micrograms of aluminium, and so on. "Thus, babies who follow the CDC immunization schedule are injected with nearly 5,000 micrograms (5milligrams) of aluminum by 18 months of age," writes Neil Z. Miller in a detailed **report** on the subject. Depending on their vaccine schedule, babies may receive up to 1,475 micrograms of aluminium at their 12 or 15 month visit, which happens to be right around the **reported** age that most parents and doctors first notice the onset of autism symptoms. The Centers for Disease Control **confirms** those numbers and cites an FDA study which found that an infant could be exposed to more than four milligrams of aluminium from vaccines in the first year of life."*

Prof Exley's team from Keele have published two papers in 2017 about aluminium. Aluminium in brain tissue in autism in which samples from 5 donors had aluminium measured. The highest measurement of 22.11 micrograms/gram was taken in one of the three samples from the occipital lobe of a 15-year-old boy. *"We have made the first measurements of aluminium in brain tissue in ASD and 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,*

<sup>33</sup> <http://nora.nerc.ac.uk/14557/1/OR11013.pdf>

<sup>34</sup> <https://www.ncbi.nlm.nih.gov/pubmed/23609067>

*vasculature, grey and white matter is a standout observation and could implicate aluminium in the aetiology of ASD.”<sup>35</sup>*

*Aluminium in brain tissue in familial Alzheimer’s disease<sup>36</sup> “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 functions. Aluminum (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.”*

### **The Wellcome Trust and the Gates Foundation working together 27/02/2016**

Dr Jeremy Farrar of the Wellcome Trust and Dr Trevor Mundel of the Gates Foundation wrote in the Observer/Guardian on 27/02/2016 to appeal for money for vaccines and drugs to fight global diseases.<sup>37</sup> Both have intimate connections with agrochemical and pharmaceutical corporations including Monsanto, Syngenta, Bayer, AstraZeneca and GlaxoSmithKline.<sup>38</sup> According to Independent Science News, the Bill and Melinda Gates Foundation this year paid a PR firm called Emerging Ag \$1.6 million to recruit a covert coalition of academics to manipulate a UN decision-making process over gene drives, according to emails obtained through Freedom of Information requests.<sup>39</sup> Jonathan Latham PhD explains that: *“Gene drives are a highly controversial new genetic extinction technology. They have been proposed as potentially able to eradicate malarial mosquitoes, agricultural pests, invasive species, as well as having potential military uses.”*

### **In 2010 GSK Pandemrix vaccine was recommended for swine flu: narcolepsy was a rare complication: why did the Government underwrite it so the taxpayer has to pay the bill?**

*“Reports indicate that dozens of Pandemrix victims from the UK will be awarded about \$1.5 million each in British pounds for permanent health damage caused by GSK’s Pandemrix vaccine.<sup>40</sup> One in 16,000 people who took the vaccine, it turns out, are said to have developed narcolepsy and/or cataplexy, two neurological diseases that disrupt normal sleep patterns and muscle function.*

*But rather than be held responsible, GSK is actually billing the UK government the equivalent of about \$92 million to pay for damages, which means taxpayers are footing the bill. The Work and Pensions Department (WPD) would only pay out for 60% disability.”*

The WPD refused to pay until a major study of four- to 18-year-olds by the Health Protection Agency found that around one in every 55,000 vaccinations was associated with narcolepsy.<sup>41</sup>

<sup>35</sup> <https://www.sciencedirect.com/science/article/pii/S0946672X17308763>

<sup>36</sup> <https://www.ncbi.nlm.nih.gov/pubmed/21157018>

<sup>37</sup> <http://www.theguardian.com/global-development/2016/feb/27/global-defence-against-virus-zika-ebola-needed>

<sup>38</sup> <http://www.globaljustice.org.uk/sites/default/files/files/resources/gated-development-global-justice-now.pdf>

<sup>39</sup> <https://www.independentsciencenews.org/news/gates-foundation-hired-pr-firm-to-manipulate-un-over-gene-drives/>

<sup>40</sup> [http://www.naturalnews.com/050767\\_swine\\_flu\\_vaccine\\_GlaxoSmithKline\\_Pandemrix.html](http://www.naturalnews.com/050767_swine_flu_vaccine_GlaxoSmithKline_Pandemrix.html)

<sup>41</sup> <http://www.bmj.com/content/346/bmj.f794#aff-3>

### **British Medical Journal questions the independence of the decision to market the Bexero vaccine**

Big food, big pharma: is science for sale<sup>42</sup>

Editor's Choice: Elizabeth Loder, acting head of research *The BMJ*. "We have grown accustomed to allegations of conflicts of interest, biased research, and manipulative marketing on the part of the drug industry. Sadly, this is not the only area where there is reason to be concerned about corporate influences on public policy. Crowcroft and colleagues examine the controversy over the UK government decision on public funding for a new vaccine (Bexsero) for meningococcal disease.<sup>43</sup> The problems they outline are all too familiar: "lobbying may have influenced the alteration" of the original decision. Links between some "vocal clinicians" and the drug industry were not disclosed. The lack of transparency makes it unsurprising that "conspiracy theories emerged, including the idea of undue influence of industry." Crowcroft et al had said: "Controversy about the evidence, economics, ethics, lobbying, and decision making surrounding a new vaccine for serogroup B meningococcal disease should trigger change in the way we develop recommendations for new vaccine."

### **A review by the International Medical Council on Vaccination**

by Buttram & Frompovich:<sup>44</sup>

Vaccines and Brain Inflammation: the effects of vaccinations on children's brains. In particular there was a prospective study of premature infants vaccinated and followed for three days; abnormal elevation of C-Reactive Protein (CRP)<sup>45</sup> level occurred in 85% of infants administered multiple vaccines and up to 70% of those given a single vaccine. Overall, 16% of infants had vaccine-associated cardiorespiratory events within 48 hours post-immunization. Furthermore, the Pourcyrus Study noted that the DTaP vaccine<sup>46</sup> was associated with the highest incidence of cardio-respiratory events in those infants given a single vaccine.<sup>47</sup> They found that the adjuvants aluminium, oils (such as peanut oil) and bacterial products could be responsible for inflammation. During the Congressional Hearings on Vaccine Safety (1999-Dec. 2004) an FDA panel was repeatedly asked, "Where are your (safety) studies?" The panel could only reply with unsatisfactory answers such as, "They would be very expensive."

### **Merck and GlaxoSmithKline (GSF) donated vaccines Gardasil and Cavarix to prevent cervical cancer through the Gates Foundation in India that have caused illnesses and seven deaths; the trial was done without valid consent forms**

Narayana Kumar, Times of India 31 August 2014: 'Controversial vaccine studies: Why is Bill & Melinda Gates Foundation under fire from critics in India? "Several months after the vaccines were administered, many girls started falling ill and by 2010 five of them died in Andhra Pradesh and two died in Gujarat.<sup>48</sup>

*A standing committee on health and family welfare that investigated the irregularities pertaining to the observation studies in India tabled its report a year ago, on August 30. The committee said it was "deeply shocked to find that in Andhra Pradesh out of the 9,543 [consent] forms, 1,948 forms have thumb impressions while hostel wardens have signed*

<sup>42</sup> <http://www.bmj.com/content/350/bmj.h795>

<sup>43</sup> <http://www.bmj.com/content/350/bmj.h308>

<sup>44</sup> <http://www.vaccinationcouncil.org/2011/06/01/vaccines-and-brain-inflammation/>

<sup>45</sup> C-reactive protein (CRP) is produced by the liver. The level of CRP rises when there is inflammation throughout the body. It is one of a group of proteins called "acute phase reactants" that go up in response to inflammation.

<sup>46</sup> DTaP: A vaccine against diphtheria, tetanus, and whooping cough (pertussis)

<sup>47</sup> [http://www.jpeds.com/article/S0022-3476\(07\)00185-0/abstract](http://www.jpeds.com/article/S0022-3476(07)00185-0/abstract)

<sup>48</sup> [http://articles.economictimes.indiatimes.com/2014-08-31/news/53413161\\_1\\_hpv-vaccine-cervarix-human-papilloma-virus](http://articles.economictimes.indiatimes.com/2014-08-31/news/53413161_1_hpv-vaccine-cervarix-human-papilloma-virus)

2,763 forms. In Gujarat, out of the 6,217 forms 3,944 have thumb impressions and 5,454 either signed or carried thumb impressions of guardians. The data revealed that a very large number of parents or guardians are illiterate and could not even write in their local languages, Telugu or Gujarati."

Earlier this month, taking a serious view of the death of seven tribal girls in the context of the observation studies, the Supreme Court asked the Drug Controller General of India (DCGI) and the Indian Council of Medical Research (ICMR) to explain how permissions were given."

### **Dr Andrew Wakefield: treated like scientists who found problems with GM crops<sup>49</sup>**

In 1998 the *Lancet* published a case series on twelve children receiving treatment for bowel dysfunction at the Royal Free Hospital in London. The paper called for further study of a possible association between bowel disease and developmental delay, including cases of autism. It also noted that eight of the children's gastrointestinal and autistic symptoms began shortly after they received the MMR vaccination. There was a vigorous media (and medical) campaign to suggest that the paper was fraudulent and there were conflicts of interest. It was retracted from the *Lancet*. In 2010 at a GMC hearing, two of the authors Dr Andrew Wakefield and Prof John Walker-Smith, an eminent paediatric gastroenterologist, were struck off the Medical Register and Wakefield left for the US.

In 2012 Prof John Walker-Smith appealed and Justice John Mitting ruled on the appeal by Walker-Smith, saying that the GMC "*panel's determination cannot stand. I therefore quash it.*" He said that its conclusions were based on "*inadequate and superficial reasoning and, in a number of instances, a wrong conclusion.*" The verdict restored Walker-Smith's name to the medical register and his reputation to the medical community.<sup>50</sup> However, he had retired in 2001. In January 2012 Dr Wakefield sued the BMJ and the journalist Brian Deer for "*false and defamatory allegations*".<sup>51</sup> Needless to say the UK media did not report this. Were government agencies and the press (Brian Deer in The Sunday Times) protecting the interests of Merck and GlaxoSmithKline?

**British Government appoints GlaxoSmithKline president as its Scientific Advisor**  
Patrick Vallance, president of research and development at the pharmaceutical giant GlaxoSmithKline, has been appointed as the Government's chief scientific advisor. "*GSK has suffered some high-profile setbacks in clinical trials during Dr Vallance's tenure but leading figures in the medical world welcomed his appointment to the new public role.*" "*At a time when UK science needs to come together to weather the post-Brexit landscape, Patrick Vallance's appointment recognises the opportunity we have to here in the UK to connect world leading science with cutting edge innovation from global businesses.*"<sup>52</sup>

### **The FDA actually admits that vaccines can be linked to autism**

In an interesting article about women being punished for not having their children vaccinated, Mike Adams<sup>53</sup> gives a link to an article in which the FDA admits that vaccinations can be linked to autism. "*Adverse events reported during post-approval use of Tripedia vaccine include idiopathic thrombocytopenic purpura, SIDS, anaphylactic*

<sup>49</sup> [http://www.gmfrecymru.org/open\\_letters/Open\\_letter26Jan2011.html](http://www.gmfrecymru.org/open_letters/Open_letter26Jan2011.html)

<sup>50</sup> <http://healthimpactnews.com/2012/british-court-throws-out-conviction-of-autismvaccine-md-andrew-wakefields-co-author-completely-exonerated/>

<sup>51</sup> [http://www.naturalnews.com/034629\\_Andrew\\_Wakefield\\_BMJ\\_Brian\\_Deer.html](http://www.naturalnews.com/034629_Andrew_Wakefield_BMJ_Brian_Deer.html)

<sup>52</sup> <http://www.independent.co.uk/news/business/news/government-appoints-glaxosmithkline-executive-as-top-science-advisor-a8044621.html>

<sup>53</sup> [http://www.naturalnews.com/053469\\_vaccines\\_autism\\_FDA\\_documents.html](http://www.naturalnews.com/053469_vaccines_autism_FDA_documents.html)

*reaction, cellulitis, autism, convulsion/grand mal convulsion, encephalopathy, hypotonia, neuropathy, somnolence and apnea. Events were included in this list because of the seriousness or frequency of reporting. Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequencies or to establish a causal relationship to components of Tripedia vaccine.”<sup>54</sup>*

*Adams claims that: "Vaccines exist today not to prevent disease, but to sell more vaccines. And they accomplish that by making sure their vaccines don't work. Because they know that the more their vaccines don't work, the more disease they will spread, the more panic there will be in the media, and the more parents will blindly, obediently rush out to vaccinate their children. And the cycle repeats. Vaccine 'science' is actually a marketing scheme and nothing more. It has nothing to do with real science."*

## **The European Regulators ignored the facts about glyphosate**

### **Glyphosate and AMPA: widespread persistence in topsoils in Europe<sup>55</sup>**

*"A new research study by the European Commission's Joint Research Centre, the Dutch University of Wageningen and Rikilt laboratories, reveals that among 317 EU soil samples of arable land, 42% contained AMPA, the most toxic metabolite of glyphosate, while glyphosate was found in 21% of the soils; 18% of the samples had both. The study was conducted in six crop systems along 11 EU member states comprising soils under different geographical and climatic conditions. Denmark, **the UK** and Portugal are the worst in this spectrum, with the highest detection frequency, while Italy and Greece seem to be the ones using less glyphosate on their crops. However, and most notably, these 2 molecules could be found in every tested member state. **All tested crops presented glyphosate and AMPA residues.***

### **Ecological Armageddon after dramatic plunge in insect numbers 18/10/2017**

*More than 75 percent decline over 27 years in total flying insect biomass in protected areas in Germany.*

*Part of Abstract: Global declines in insects have sparked wide interest among scientists, politicians, and the general public. Loss of insect diversity and abundance is expected to provoke cascading effects on food webs and to jeopardize ecosystem services. Here, we used a standardized protocol to measure total insect biomass using Malaise traps, deployed over 27 years in 63 nature protection areas in Germany (96 unique location-year combinations) to infer on the status and trend of local entomofauna.*

*When the total weight of the insects in each sample was measured a startling decline was revealed. The annual average fell by 76% over the 27-year period, but the fall was even higher – 82% – in summer, when insect numbers reach their peak.*

### **Antibiotic resistance an apocalyptic threat from use of herbicides**

*In 2013 Professor Dame Sally Davies claimed that antibiotic resistance is an apocalyptic threat to humans and should be put on the list of civil emergencies. She blamed doctors and vets for overuse. But in 2017, a paper from New Zealand showed that herbicides glyphosate, dicamba and 2-4 D change antibiotic responses to pathogenic bacteria.<sup>56</sup>*

## **Glyphosate is present everywhere: have British citizens been informed?**

<sup>54</sup>

[http://www.naturalnews.com/053469\\_vaccines\\_autism\\_FDA\\_documents.htmlwww.fda.gov/dowloads/BiologicsBloodVaccines/Vaccines/ApprovedProducts/UCM101580.pdf](http://www.naturalnews.com/053469_vaccines_autism_FDA_documents.htmlwww.fda.gov/dowloads/BiologicsBloodVaccines/Vaccines/ApprovedProducts/UCM101580.pdf)

<sup>55</sup> <http://www.sciencedirect.com/science/article/pii/S0048969717327973>

<sup>56</sup> <http://mic.microbiologyresearch.org/content/journal/micro/10.1099/mic.0.000573>

Séralini found glyphosate in rodent diets for testing chemicals used in every continent. Samsel has found glyphosate present in the keratin proteins of humans and animals, in **vaccines**, baby milk formulations, pet foods and rat feeds for experimental purposes. It has been found in sanitary products made from GM cotton. All processed foods including orange juice; beers, breakfast cereals, bread, wine; all non-organic vegetables including potatoes. In March 2016 a survey of more than 2009 German citizens tested showed that more than 99% had glyphosate in their urine and the highest levels were in children and young adults and those that were meat eaters.<sup>57</sup> Glyphosate was found to be persistent in seawater off the Great Barrier Reef.<sup>58</sup> It was also found in the islands of Hawai'i where the agrochemical industry undertakes testing of GM crops, which the people of Hawai'i don't want.<sup>59</sup> *"The most commonly tested GE "trait" is herbicide-resistance (82% of field releases over the past two years), which permits heavier and more frequent spraying of herbicides than is otherwise possible (3.2 & 3.4). Hawai'i's incredible biodiversity and many threatened and endangered species are at risk from intensive pesticide use on the Islands. "*

### **The NHS is failing because the NHS staff is eating food poisoned with pesticides as well as the patients: education is failing for the same reason**

Proof that obesity is a problem related to glyphosate: a study showed that 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. A study on obesity: "Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19.2 million participants published in the *Lancet* in March 2016 says: *"About a fifth of all adults around the world and a third of those in the UK will be obese by 2025, with potentially disastrous consequences for their health"*.<sup>60</sup> The *Lancet* Study says there is zero chance that the world can meet the target set by the UN for halting the climbing obesity rate by 2025.

*"Over the past 40 years, we have changed from a world in which underweight prevalence was more than double that of obesity, to one in which more people are obese than underweight,"* said senior author Prof Majid Ezzati from the School of Public Health at Imperial College London. *"The English-speaking world is particularly badly affected. **The UK will have the highest obesity among both men and women in Europe, at 38%.*** In contrast: *"Against the trend of steadily rising weight, women in some countries had virtually no increase in BMI over the 40 years – in Singapore, Japan, and a few European countries including Czech Republic, Belgium, **France**, and Switzerland."*

The UK and the US are predicted to head the global obesity levels. Children in Wales are so obese that they are now approaching the levels seen in the US.

### **Overweight and obesity in mid-life: Evidence from the 1970 British Cohort Study**

The Centre for Longitudinal Studies based at the Institute of Education University of London published their latest report on 9 November 2013.<sup>61</sup>

Their key findings of the cohort at age 42 were that:

- The generation born in 1970 is considerably more likely to be overweight or obese than those born 12 years earlier were at the same age.
- Men born in 1970 are far more likely to be overweight than women.

<sup>57</sup> <http://www.lifegate.com/people/lifestyle/glyphosate-almost-all-germans-intoxicated>

<sup>58</sup> <http://www.sciencedirect.com/science/article/pii/S0025326X14000228>

<sup>59</sup> [http://www.centerforfoodsafety.org/files/pesticidereportfull\\_86476.pdf](http://www.centerforfoodsafety.org/files/pesticidereportfull_86476.pdf)

<sup>60</sup> <http://www.theguardian.com/society/2016/mar/31/one-fifth-of-worlds-adults-will-be-obese-by-2025-study-predicts>

<sup>61</sup> [Overweight and obesity in mid-life: Evidence from the 1970 British Cohort Study at age 42](#)

### **Rise in death rates spread across the age groups not just in the elderly**

Will Hutton wrote in *The Observer* on 1 January 2017: “*The British are in the midst of a critical health epidemic. In the 12 months to June 2016, the number of deaths jumped by the biggest absolute and relative amount since 1940 – a rise of 52,400. And this appears not solely to be an effect of a growing and ageing population, since the increase is spread across age groups. (Deaths rose by 12% among those aged 90 and over; 10% for 85-89; 7% for 80-84; 5% for 75-70; and 3% for those aged 55-74.) This is unprecedented in peacetime.*”<sup>62</sup>

### **UK Mortality rates from 2014 the highest for 50 years: they continue to rise**<sup>63</sup>

The period July 2014 to June 2015 saw an additional 39 074 deaths in England and Wales compared with the same period the previous year. While mortality rates fluctuate year-on-year, this was the largest rise for nearly 50 years and the higher rate of mortality has been maintained throughout 2016 and into 2017.

### **Sustaining Life: How Human Health Depends on Biodiversity**<sup>64</sup>

Dr Eric Chivian founded the Center for Health and the Global Environment at Harvard Medical School in 1996: “*To help people understand that our health, and that of our children, depends on the health of the environment and that we must do everything we can to protect it*”

Eric Chivian and Aaron Bernstein co-edited the above book, which includes contributions from more than 100 leading biodiversity and health scientists. It was published in June 2008 by Oxford University Press and was co-sponsored by the United Nations Development Programme, the United Nations Environment Programme, the Secretariat of the Convention on Biological Diversity and the World Conservation Union.

From our experiences in Swansea with Roundup, I believe we are heading for the sixth mass extinction from chemicals in the environment. Everyone in Britain is being, and will be, increasingly poisoned but they have no idea. The Press in France, Germany, Italy and Denmark inform their own people about pesticides in their food. But the UK Media led by Rupert Murdoch and other billionaires have their own corporate agenda.

They have failed to report the damaging effects of pesticides in our food and Roundup that is sprayed in towns and cities. The Brexiteers want to do a special trade deal with the US. That will be worse.

The Members of the Houses of Parliament, the House of Lords, the Executives of the Chemical Corporations and the Press, have also been poisoned by chemicals, unless they are eating organic food.

**They are silent killers and no one will escape their effects.**

Rosemary Mason MB ChB FRCA

4 December 2017

<sup>62</sup> <https://www.theguardian.com/commentisfree/2017/jan/01/good-health-good-society-we-are-suffering>

<sup>63</sup> <http://jech.bmj.com/content/71/11/1068>

<sup>64</sup> <https://global.oup.com/academic/product/sustaining-life-9780195175097?cc=gb&lang=en&>