GMO's THE NIGHTMARE COME TRUE

By Sally Jackson RN, CLNC, CPT, Pt.Adv.

Aug. 2012

I'd like to tell you a story, it's not necessarily a happy story but it's the vision that I see of our future if we continue on our present path. I look at what science has told us so far and I just simply follow the path that research has set down. With any problem, whether it is an ailment or disease, the resolution lies in finding and correcting the cause. In this instance the cause would be genetically altered foods.

If we were eating the wholesome foods that were available fifty years ago then the elimination of toxins would be simple. But unfortunately we live in the age of 'modern science', which basically means; genetically modified organisms or GMO's.

By definition; combining genes from different organisms is known as recombinant DNA technology, and the resulting organism is said to be "genetically modified," "genetically engineered," or "transgenic." GM products include medicines and vaccines, foods and food ingredients, feeds, and fibers. According to the FDA and the United States Department of Agriculture (USDA), there are over 40 plant varieties that have completed all of the federal requirements for commercialization.

This means that several very large biotech corporations have literally changed the foods we eat. By changing the genetic structure of such foods as corn, soy, sugar beets, sweet corn, rice, honey, canola and vegetable oil, tomatoes, potatoes, squash, papaya and cotton. Genetically modified structured foods can be found in

almost all commercially produced foods on the market today. This includes milk products via animal feed and even vitamins.

The theory behind GMO's was to improve food production by eliminating the need for herbicides and pesticides during plant growth, thereby producing a higher yield of crops to supposedly "feed the masses".
The genetic modification introduced a foreign gene from the pesticide and or herbicide into the plants gene; as a result the plants themselves become toxic to insects and weeds creating a 'living pesticide or herbicide'. Once created this process is NOT reversible. In 1997 this was successful but only for the first generation of insects. The insects evolved and became resistant to the toxins, the weeds also developed their own resistance and became even more difficult to eradicate. This in turn resulted in an increase use of even stronger pesticides and herbicides. And of course the industry that produces the crop seeds also produces the additional needed pesticides and herbicides; a win – win situation for the biotech industry. And as we can plainly see the driving force behind all of this is not the improvement of health or even feeding the masses but instead, the filling of the pocketbook. Tinkering with DNA requires selective, refined long term studies and scientific verification for safety.

Unfortunately the USDA in all its wisdom did not require testing to prove that these "Franken-crops" are not harmful to animals or humans; and graciously allowed the industry to sell these crops to not only the animal feed industry but the American food market as well. Today there is still no independent testing required by the USDA or the FDA to prove safety of these crops.

You would think that if the crop failed in its intended use that this experiment in 'Franken-foods' would end, instead it prompted the use of multiple foreign genes, (called; stacked traits) consisting of; not only other plants genes, but bacteria, viruses, and even human genes, implanted into crop seeds with no knowledge of what these crops could do to our animal or human population when consumed. Today the United States does NOT require any toxicological studies on any genetically altered crop to determine adverse effects and safety, and Europe requires 90 day studies on only single trait crops, not stacked traits. In actuality, it takes months of detailed studies to determine safety and identify any possible

resulting illnesses. Remember, once these 'Franken-crops' are planted, the 'mold has been cast', and the process cannot be undone.

In order to tell this story we need to understand the evolution of animal and man. Each species has its own rate of evolution. For example; the honey bee produces several generations of its own species in one year. Whereas microorganisms like bacteria will produce thousands of generations in one year. The cow has a life span of 20 years and will produce three to four generations in that time. Pigs normally live 5 to10 years and will produce three to four generations in their lifetime. But it takes 40 to 60 years for the human population to create three to four generations.

Microorganisms will adapt and change their structure and even their DNA to survive. Small insects will also be able to adapt, all due to the fact that these living entities multiply and can change in a very short period of time (from hours to months). But larger animals, as well as humans, take years, even centuries to adapt and change for the purpose of survival.

If we use this as a form of comparison then we might be able to look down the road and see the future for humans in this 'Franken-food' experiment.

There are some who will say, that as humans we can change anything with science. This may be true to some extent, but at what cost, what price will we ultimately pay before we see the mistakes that were made, and can we truly correct the error. I fear the price may be too high.

If we look to what science has given us so far, we might be able to put some of the pieces of this puzzle together. Mind you, we do not have independent studies to verify any safety in the use of these 'Franken-foods'. It's interesting to note that every independent test that I have found, that has been started anywhere (throughout the world) has been, ether destroyed, discontinued or discredited by either members of the biotech industry or government officials. You would think that if these foods are as safe as the GM industry states they are, that they would welcome independent opinion and research as a form of validation of their work. Unfortunately this is not the case.

First let's look at what science tells us so far.

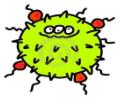
So far our safety requirements in this country have been limited to what is called a 'comparative study'; this means that the manufacturer of these GM foods can declare safety by comparing the GM crop structure with that of a non-GMO crop. In other words, if it looks like a duck, then it will quack the same, and therefore it is safe. Regulations have been written into these 'safety guidelines' that require no further testing past this point. And even these comparisons have been bypassed, according the same GM producers themselves. The proteins of some GM plants are too difficult to extract from the plant for the purpose of comparison, and a substitute protein has been used for the comparison instead. So now they are using a wooden duck instead of the real duck, and it still looks like a duck so it should quack the same, therefore no further testing is needed.

I personally do not call this science by any stretch of the imagination.

The following studies span over the past 17 years, since Genetically Modified crops have been introduced to this country.

Netherwood T. and Heritage J. (2004)

A human study using GM Soybean meal found that GM DNA survived processing and was discovered in the human digestive tracts. The same DNA in the Soybean was found in human gut bacteria. This gene transfer from plant to bacteria was called horizontal gene transfer. This bacteria, was alive and functional, which raises the question of possible development of complex nutritional-host-interaction (a living pesticide factory in human intestines)

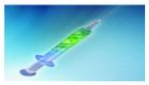


and new strains of antibiotic resistant mega- bacteria with resulting human infection as well as disease. The GM industry dismissed this study as "not genetically relevant" and no further studies were conducted.

Poulsen (2007)

A feeding trial on rats fed GM rice found significant differences as compared to non-GMO rice. There were distinctive differences in blood chemistries, a positive immune response (possible indication of allergens) and altered gut bacteria, with the female rat organs significantly heavier. This was classified by the GM industry as "not considered as adverse". The researchers requested further studies to draw long term conclusions, but none were funded, and no further studies were done.

Schroder (2007)

A study on GM rice fed rats found significant differences compared with those fed non-GMO rice. Conclusions found 23% higher levels of coliform bacteria (disruptive bacteria) in the digestive tracts. The reproductive organs were also heavier. Overall they concluded "possible toxicological findings"  in the GM rice. The GM rice had changed its composition with respect to mineral, amino acid, total fat and protein content, with one amino acid markedly higher (histadine). So it's not a duck (it did not pass comparative study), but the GM producer dismissed the findings as "not genetically relevant". No further research was done.

Kroghslo (2008)

This study found that rats fed GM Bt rice (Bt = pesticide gene) discovered a Bt specific immune response in the test, as well as the control groups. The conclusion was that all test subjects had inhaled particles  of powdered Bt-toxin from the feed, which was not the route of use for this study. The unexpected allergic reaction to the Bt-toxin  (negative response) caused the study to be dropped and new feeding parameters to be recommended.

Austria 2008

The Austrian government published a study on GM Corn fed mice, with results of smaller size and fewer babies per litter, the death rate in the mice was twice that of the control group, which was fed non-GMO corn. An additional note was made that unexpected deaths in adult mice were determined to come from cancer. Not long after this study began the supplier of the rat food abruptly changed their formula to include GM soy in all their foods, thus ending any further research due

to contamination of the test feed. But it was noted that within two months of that time the infant rat mortality skyrocketed to 55.3%.

Russia 2010

A study was performed at the institute of Ecology and Evolution of the Russian Academy of Sciences with the National Association for Gene Security. Russian biologists, Alexey V. Surov and Irina Ermakova tested hamsters and rats with diets based on GM Soy Roundup Ready (a higher potency Bt toxin designed to tolerate the use of large amounts of bacterial toxin spray known as Bacillus Thuringiensis). Dramatic changes in reproductive health were found, including increased infant mortality rates, increased birth defects, and third generation sterility. Preliminary reports were published and made public, but before the final results could be published they were vilified, their labs were 'mysteriously' destroyed, samples were stolen and written research was burned. No one yet has attempted to verify their research. In the words of Dr. Surov; " without the details of these tests we cannot pinpoint the true cause of these reproductive disasters".

Quebec Canada, 2011

This human study detected significant levels of the insecticidal protein, Cry1Ab,

which is only present in GM Bt Crops, circulating in the blood of 69 women (pregnant, non-pregnant and their fetuses) The percentage of Cry1Ab protein was as follows; 93% in maternal blood, 80% in Fetal blood and 69% in non pregnant blood. How the protein got into the blood was not clarified. Was it the result of horizontal gene transfer, and did these women have a 'living pesticide factory in their intestinal tracts? These are unanswered questions, with no testing done in these areas. But the true question that needs to be asked is; should this toxin be there at all? And what impact could this have on future generations??

We are biologic creatures, and as such we have a responsibility to protect animal life, in doing so we also protect ourselves. Warm blooded or Cold, it makes no difference, we are all affected by the environment in the same ways.

If we eat the same foods we may have the same problems.

2009 Italy

A team of independent scientists conducted a follow up study using the raw data (released after a law suit) from three of Monsanto's own 90 day rat feeding studies using Gm Corn varieties. The results found signs of toxicity in the liver and kidneys as well as toxic effects on the heart, adrenal glands, spleen and the blood of the test subjects.

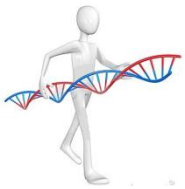
2007 Europe

Twenty three farmers reported their pigs had reproductive problems when fed GM Bt corn. Pigs became sterile, had false pregnancies, or gave birth to bags of water. Similar complaints were made about cows and bulls becoming sterile. GM Bt corn was also the feed of choice during a large scale death of cows, horses, water buffaloes, and chickens.

India 2006 and 2007

An incident of sheep grazing on Bt cotton plants found 25 % of the herd dead within 5 days. Post mortem showed death due to high toxin intake with liver and kidney failure. A small feeding study was done following the incident, using Bt cotton. This resulted in 100% death within thirty days.

The GM Industry tells us that if there is no change in structure, then there is no need for safety testing. It may indeed look like a duck, but it may not quack the same, and this in itself is enough to warrant testing, and without testing, what do we look for? We are already surrounded by diseases that we have not found the cause, let alone, the cure for, and GMO's have been in our food for the past 17 years, are they already a part of today's problems with increasing disease? I can see the connections and can emphatically say **YES!** My prime example would be in High Fructose Corn Syrup, a product of GMO Corn, found in almost every processed food in this country. This is the leading cause of metabolic syndrome or syndrome X (obesity, heart disease and diabetes) in this country alone. In my personal opinion, I think that GMO corn belongs in the gas tanks of our cars and not in our mouths. We need science to give us the answers, and that means testing.



What do we see?

If we continue on the present path and keep GM ingredients in our foods then without knowledge or safety testing, the muddy waters of illness, disease and death will become deeper and colder.

Let's recap,  and look at what the actual science has shown us over the past 17 years. We see evidence of Horizontal gene transfer of active (live) DNA in gut bacteria, with an increased growth in harmful bacteria. Evidence of increased allergic type responses resulting in mal-absorption syndrome, osteoporosis, marked liver and kidney disease and various forms of cancer involving all of these organs. Evidence of the actual Bt Gene (Bacillus Thuringiensis), a 'living pesticide' and known toxin, found in the blood of pregnant women and their fetuses.

What does this tell us and what do I see?

If our diets remain unchanged, I see a marked increase in diseases associated with mal-absorption syndrome and the accompanying dietary deficiencies, including osteoporosis and neurological diseases especially in the pediatric and geriatric populations. Ten years from now the statistics for childhood and geriatric disease and deaths will dramatically rise. These are our venerable populations, young, undeveloped immune systems and bodies, as well as the elderly, with immune systems that are already compromised.

 Genetic changes are unpredictable, but we do know that the human species is very slow and poor when it comes to the ability of natural adaptation to environmental changes. These adaptations could take as much as eighty years to occur, which would encompass three to four generations.

If GMO's continue at their present pace, hidden in all of our processed foods, without knowledge or safety testing, then in 40 years I see a dramatic decrease in our population due to damaged reproductive organs and decreased number of births. For those who appear to survive, I see compromised immune systems with

persistent chronic illnesses, including allergic responses, auto immune diseases as well as liver and kidney disease, and overall dramatically shorter life spans. But in 80 years I see a new generation that will have to rely on test tube babies for the next generation, as this 'new generation' will have mal-formed reproductive organs and will be sterile. As a result, the total population will dramatically drop and only those who can afford test–tube genetic development of the next generation will survive. And at that time if the foods we eat remain genetically altered, then 100 years from now, mankind as we know it may no longer exist. 

Granted this is an extreme picture that was posed to make you stop and think.

Is this possible?  **YES!**

It is possible, and may be our new reality if the GM industry goes unchecked. Without any outside safety controls to protect our health we are left venerable to any and all of the insults that are so freely provided by this GM industry through our food.

Now you ask; What can I do?

First, each and every adult in this country needs ask 'Mother May I", take one step backwards and **return to a healthy diet and life style, and use askMyRN.com to get there. You are in control, and you must make the changes.**

VOTE for GM Labeling  on all foods in this country, and **STOP eating** any foods that contain GM ingredients. Until we have a law that enforces GM labeling then I recommend that you buy only those foods that bare the USDA 100% Organic label. Look for "Non-GMO Project" verified seals, and avoid products containing Soybeans, Canola, Cottenseed, Corn, Sugar from Sugarbeets, and buy those products that are listed in the Non-GMO shopping guide. Remember that over 30,000 products in this country have GM ingredients, please read all labels and DO NOT BUY those products with GMO ingredients. This sends

a clear message  to the product manufacturer that we do not want GMO's in our food. Join the Institute for Responsible Technology and utilize the Non-GMO Shopping Guide (www.NongmoShoppingGuide.com), also (www.HealthierEating.org) and join the tipping point. Keep yourself and your family healthy, **DO NOT consume** these toxic foods, especially if you have any unexplained illness or allergy.

Outside, independent safety testing will only come after we unite and force our legislators to make the appropriate changes in our laws, and changes in the structure of our federal agencies, including the elimination of lobby's, to ensure proper enforcement of new regulations and laws. I urge each and every person to join the Alliance for Natural Health; A nonprofit organization that fights for natural health for the general public at the government level, protecting our needs and our basic rights to good health through legislation, as a governmental watch dog. But their work can only succeed with the voice of all the people.

This nightmare can change, but it takes every individual to make a concerted effort, and this effort must start now. It's time to stop looking over our shoulder at the past mistakes and start changing what we see now. **GMO's DO NOT BELONG IN OUR FOOD. DO NOT BUY ANY PRODUCTS THAT CONTAIN THEM!!!**

The following is a list of those foods that are presently produced by the GM industry; this list has been provided by the United States Department of Agriculture (USDA).

Rapeseed - Resistance to certain pesticides and improved rapeseed cultivars to be free of erucic acid and glucosinolates. Gluconsinolates, which were found in rapeseed meal leftover from pressing, are toxic and had prevented the use of the meal in animal feed. In Canada, where "double-zero" rapeseed was developed, the crop was renamed "canola" (Canadian oil) to differentiate it from non-edible rapeseed.
Honey - Honey can be produced from GM crops. Some Canadian honey comes from bees collecting nectar from GM canola plants. This has shut down exports of Canadian honey to Europe.
Cotton - Resistant to certain pesticides - considered a food because the oil can be consumed. The introduction of genetically engineered cotton plants has had an unexpectedly effect on Chinese agriculture. The so-called Bt cotton plants that produce a chemical that kills the cotton bollworm have not only reduced the incidence of the pest in cotton fields, but also in neighboring fields of corn, soybeans, and other crops.
Rice - Genetically modified to contain high amounts of Vitamin A. Rice containing human genes is to be grown in the US. Rather than end up on dinner plates, the rice will make human proteins useful for treating infant diarrhea in the developing world.
Soybean - Genetically modified to be resistant to herbicides - Soy foods including, soy beverages, tofu, soy oil, soy flour, lecithin. Other products may include breads, pastries, snack foods, baked products, fried products, edible oil products and special purpose foods.

Sugar cane - Made resistant to certain pesticides. A large percentage of sweeteners used in processed food actually comes from corn, not sugar cane or beets. Genetically modified sugar cane is regarded so badly by consumers at the present time that it could not be marketed successfully.
Tomatoes - Made for a longer shelf life and to prevent a substance that causes tomatoes to rot and degrade.
Corn - Resistant to certain pesticides; - Corn oil, flour, sugar or syrup. May include snack foods, baked goods, fried foods, edible oil products, confectionery, special purpose foods, and soft drinks.
Sweet corn - genetically modified to produces its own insecticide. Officials from the US Food and Drug Administration (FDA) have said that thousands of tonnes of genetically engineered sweetcorn have made their way into the human food supply chain, even though the produce has been approved only for use in animal feed. Recently Monsanto, a biotechnology food producer, said that about half of the USA's sweetcorn acreage has been planted with genetically modified seed this year.
Canola - Canola oil. May include edible oil products, fried foods, and baked products, snack foods.
Potatoes - (Atlantic, Russett Burbank, Russet Norkatah, and Shepody) - May include snack foods, processed potato products and other processed foods containing potatoes.
Flax - More and more food products contain flax oil and seed because of their excellent nutritional properties. No genetically modified flax is currently grown. An herbicide-resistant GM flax was introduced in 2001, but was soon taken off the market because European importers refused to buy it.
Papaya - The first virus resistant papayas were commercially grown in Hawaii in 1999. Transgenic papayas now cover about one thousand hectares, or three quarters of the total Hawaiian papaya crop. Monsanto, donated technology to Tamil Nadu Agricultural University, Coimbatore, for developing a papaya resistant to the ringspot virus in India.
Squash - (yellow crookneck) - Some zucchini and yellow crookneck squash are also GM but they are not popular with farmers.
Red-hearted chicory - (radicchio) - Chicory (Cichorium intybus var. foliosum) is popular in some regions as a salad green, especially in France and Belgium. Scientists developed a genetically modified line of chicory containing a gene that makes it male sterile, simply facilitating the production of hybrid cultivars. Today there is no genetically modified chicory on the market.
Cotton seed oil - Cottonseed oil and linters. Products may include blended vegetable oils, fried foods, baked foods, snack foods, edible oil products, and small goods casings.
Tobacco -The company Vector has a GMO tobacco being sold under the brand of Quest® cigarettes in the U.S. It is engineered to produce low or no nicotine.
Meat - Meat and dairy products usually come from animals that have eaten GM feed.
Peas - Genetically modified (GM) peas created immune responses in mice, suggesting that they may also create serious allergic reactions in people. The peas had been inserted with a gene from kidney beans, which creates a protein that acts as a pesticide.
Vegetable Oil - Most generic vegetable oils and margarines used in restaurants and in processed foods in North America are made from soy, corn, canola, or cottonseed. Unless these oils specifically say "Non-GMO" or "Organic," it is probably genetically modified.
Sugarbeets - May include any processed foods containing sugar.
Dairy Products - About 22 percent of cows in the U.S. are injected with recombinant (genetically modified) bovine growth hormone (rbGH).
Vitamins - Vitamin C (ascorbic acid) is often made from corn, vitamin E is usually made from soy. Vitamins A, B2, B6, and B12 may be derived from GMOs as well as vitamin D and vitamin K may have "carriers" derived from GM corn sources, such as starch, glucose, and maltodextrin.

REFERENCES

1. Netherwood et al, "Assessing the survival of transgenic plant DNA in the human gastrointestinal tract," Nature Biotechnology 22 (2004): 2.

2. Division of Food Chemistry and Technology and Division of Contaminants Chemistry, “Points to Consider for Safety Evaluation of Genetically Modified Foods: Supplemental Information,” November 1, 1991, www.biointegrity.org

3. M. Malatesta, C. Caporaloni, S. Gavaudan, M. B. Rocchi, S. Serafini, C. Tiberi, G. Gazzanelli, “Ultrastructural Morphometrical and Immunocytochemical Analyses of Hepatocyte Nuclei from Mice Fed on Genetically Modified Soybean,” Cell Struct Funct. 27 (2002): 173–180

4. Jeffrey M. Smith, Genetic Roulette: The Documented Health Risks of Genetically Engineered Foods, Yes! Books, Fairfield, IA USA 2007

5. Irina Ermakova, “Experimental Evidence of GMO Hazards,” Presentation at Scientists for a GM Free Europe, EU Parliament, Brussels, June 12, 2007

6. V.Ermakova, “Genetically Modified Organisms and Biological Risks,” Proceedings of International Disaster Reduction Conference (IDRC) Davos, Switzerland August 27th – September 1st, 2006: 168–172.

7 Irina Ermakova, “Genetically modified soy leads to the decrease of weight and high mortality of rat pups of the first generation. Preliminary studies,” Ecosinform 1 (2006): 4–9.

8. Irina Ermakova, “Experimental Evidence of GMO Hazards,” Presentation at Scientists for a GM Free Europe, EU Parliament, Brussels, June 12, 2007

8. Vazquez et al, "Intragastric and intraperitoneal administration of Cry1Ac protoxin from Bacillus thuringiensis induces systemic and mucosal antibody responses in mice," Life Sciences, 64, no. 21 (1999): 1897–1912; Vazquez et al, “Characterization of the mucosal and systemic immune response induced by Cry1Ac protein from Bacillus thuringiensis HD 73 in mice,” Brazilian Journal of Medical and Biological Research 33 (2000): 147–155.

9. Vazquez et al, “Bacillus thuringiensis Cry1Ac protoxin is a potent systemic and mucosal adjuvant,” Scandanavian Journal of Immunology 49 (1999): 578–584. See also Vazquez-Padron et al., 147 (2000b).

10. Nagui H. Fares, Adel K. El-Sayed, “Fine Structural Changes in the Ileum of Mice Fed on Endotoxin Treated Potatoes and Transgenic Potatoes,” Natural Toxins 6, no. 6 (1998): 219–233.

11. Arpad Pusztai, “Can Science Give Us the Tools for Recognizing Possible Health Risks for GM Food?” Nutrition and Health 16 (2002): 73–84.

12. S. Leeson, “The Effect of Glufosinate Resistant Corn on Growth of Male Broiler Chickens,” Department of Animal and Poultry Sciences, University of Guelph, Report No. A56379, July 12, 1996.

13. Malatesta, et al, “Ultrastructural Analysis of Pancreatic Acinar Cells from Mice Fed on Genetically modified Soybean,” J Anat. 2002 November; 201(5): 409–415; see also M. Malatesta, M. Biggiogera, E. Manuali, M. B. L. Rocchi, B. Baldelli, G. Gazzanelli, “Fine Structural Analyses of Pancreatic Acinar Cell Nuclei from Mice Fed on GM Soybean,” Eur J Histochem 47 (2003): 385–388.

14. M. Green, et al., “Public health implications of the microbial pesticide Bacillus thuringiensis: An epidemiological study, Oregon, 1985-86,” Amer. J. Public Health 80, no. 7(1990): 848–852.

15. M.A. Noble, P.D. Riben, and G. J. Cook, “Microbiological and epidemiological surveillance program to monitor the health effects of Foray 48B BTK spray” (Vancouver, B.C.: Ministry of Forests, Province of British Columbi, Sep. 30, 1992).

16. G. A. Kleter and A. A. C. M. Peijnenburg, “Screening of transgenic proteins expressed in transgenic food crops for the presence of short amino acid sequences indentical to potential, IgE-binding linear epitopes of allergens,” BMC Structural Biology 2 (2002): 8–19.

17. Hye-Yung Yum, Soo-Young Lee, Kyung-Eun Lee, Myung-Hyun Sohn, Kyu-Earn Kim, “Genetically Modified and Wild Soybeans: An immunologic comparison,” Allergy and Asthma Proceedings 26, no. 3 (May–June 2005): 210-216(7).

18. FLRAG, “Comments to ANZFA about Applications A346, A362 and A363,” http://www.iher.org.au/ 88 Doug Gurian-Sherman, “Holes in the Biotech Safety Net, FDA Policy Does Not Assure the Safety of Genetically Engineered Foods,” Center for Science in the Public Interest, http://www.cspinet.org/new/pdf/fda_report__final.pdf

19. Bill Freese, “The StarLink Affair, Submission by Friends of the Earth to the FIFRA Scientific Advisory Panel considering Assessment of Additional Scientific Information Concerning StarLink Corn,” July 17–19, 2001.

20. Manuela Malatesta, et al, “Ultrastructural Analysis of Pancreatic Acinar Cells from Mice Fed on Genetically modified Soybean,” Journal of Anatomy 201, no. 5 (November 2002): 409; see also M. Malatesta, M. Biggiogera, E. Manuali, M. B. L. Rocchi, B. Baldelli, G. Gazzanelli, “Fine Structural Analyses of Pancreatic Acinar Cell Nuclei from Mice Fed on GM Soybean,” Eur J Histochem 47 (2003): 385–388.

21. Jeffrey M. Smith, Genetic Roulette: The Documented Health Risks of Genetically Engineered Foods, Yes! Books, Fairfield, IA USA 2007

22. Steven M. Druker, “How the US Food and Drug Administration approved genetically engineered foods despite the deaths one had caused and the warnings of its own scientists about their unique risks,” Alliance for Bio-Integrity, http://www.biointegrity.org/ext-summary.html

23. “Statement of Policy: Foods Derived from New Plant Varieties,” Federal Register 57, no. 104 (May 29, 1992): 22991.
7 Linda Kahl, Memo to James Maryanski about Federal Register Document “Statement of Policy: Foods from Genetically Modified Plants,”

24. Alliance for Bio-Integrity(January 8, 1992) http://www.biointegrity.org

25. Netherwood T, Martin-Orue SM, O’Donnell AG, et al. Assessing the survival of transgenic plant DNA in the human gastrointestinal tract. Nat Biotechnol. Feb 2004; 22(2): 204–209.

26. Heritage J. The fate of transgenes in the human gut. Nat Biotechnol. Feb 2004; 22(2): 170-172.

27. Nordlee JA, Taylor SL, Townsend JA, Thomas LA, Bush RK. Identification of a Brazil-nut allergen in transgenic soybeans. N Engl J Med. Mar 14 1996; 334(11): 688-692.

28. Aris A, Leblanc S. Maternal and fetal exposure to pesticides associated to genetically modified foods in EasternTownships of Quebec, Canada. Reproductive Toxicology. 2011; 31(4).

29. Dallegrave E, Mantese FD, Oliveira RT, Andrade AJM, Dalsenter PR, Langeloh A. 2007. Pre- and postnatal toxicity of the commercial glyphosate formulation in Wistar rats. *Arch Toxicol* 81:665-73.

30. USDA Economic Research Services- Data Sets –2000 – 2012 Inclusive.

31. J Mercola Oct. 4, 2010 ; Interview Jeffery Smith; “This supermarket Health Food Killed Baby Rats in 3 Weeks”. “No GMO Researchers”.

32. Michael Antoniou, Claire Robinson, John Fagan; June 2012—GMO Myths and Truths : Open Earth Source