Reflections on the Pusztai Affair

Andy Rowell Author

18 July 1998 – Guardian

Monsanto Public Relations - "Food – health – hope"



IPOTATOES PRODUCED BY BIOTECHNOLOGY ARE NOT YET AVAILABLE IN THE UKI

GeneWatch

"Can GM Feed the world"

GENETIC ENGINEERING: Can it Feed the World?



Briefing Number 3 August 1998

This briefing examines how genetically engineered foods are being promoted as essential to 'eeding the world's growing population and discusses whether such claims are valid.

The proponents of genetically engineered (GE) oods argue that biotechnology is essential to eed the world's growing population and build a sustainable agricultural system¹. The population, which is currently 5.8 billion, is expected to reach 8 billion by 2020 and 11 billion by 2050^{2,3}. The advocates of genetic engineering believe that the increasing demand for food must be met without expanding the amount of land used for agricultural purposes (to protect biodiversity) and by addressing issues of soil erosion, salinisation, overgrazing and pollution of water supplies^{3,4}. However, many organisations in less developed countries, aid agencies and environmental groups are less positive about the role genetic engineering can play in solving problems of hunger and tackling environmental degradation.

Who Is Behind GE Foods?

The development of GE foods is not being driven by farmers, consumers or less-developed countries but by large multinational chemical companies who have recognised a business opportunity. Six major companies now dominate the production of GE foods worldwide: Monsanto, DuPont, Hoechst, Novartis, Rhône Poulenc and Zeneca. These now style themselves as the 'Life Sciences' industry with activities which may span food, food additives and pharmaceuticals as well as their more traditional roles of chemical and Science Research Council (BBSRC) was formed to replace the Agriculture and Food Research Council in Britain, reflecting a change in emphasis in agricultural research. Many representatives of large corporations sit on Research and Strategy Boards of the BBSRC⁵, giving them the ability to influence the research programme. In sharp contrast, consumer and public interest groups (other than the Country Landowners' Association) are given no such opportunity for input.

The European Commission also finances the promotion of GE crops and foods. For example, they have granted £1 million to the so-called 'FACTT' project⁶, with a similar amount being contributed by Hoechst and other partners. In effect, the project has become a sales promotion for the GE oilseed rape developed by Hoechst subsidiaries AgrEvo and Plant Genetic Systems to bring about ".. the creation of familiarity with and acceptance of transgenic crops for farmers, extension organisations, processing industry, regulatory organisations, consumer groups and public interest groups".⁶

What GE Foods Are Being Developed?

Looking at the products which are being developed should give some clues as to their role in meeting global food peads. The Unit

31 July 1998 Guardian





4 August 1998

Western Morning News



5 August 1998 Guardian

Geoffrey Gibbs

destroyed by gene activists

hoped the focus on this site and others would push the Government to a moratorium

CTIVISTS protesting against trials of gen-cereals have de-stroyed a trials maize cro-fields close to Britain's larre or construction of the trial board of a cri-cultural Botany, which is car-rying out the trials for the government, criticised the protesters' actions, which he est organic vegetable farm. protesters' actions, which, he Twelve people were ar-rested on suspicion of crimi-nal damage or conspiracy to cause damage after the attack people ... are destroying the on the south Devon site. Last very data that will allow disnight they were still being incussion and decision."

The NIAB said the protest-maize crops on the test site at Dartington, near Totnes, the plants in the trial, which were damaged in a separate was comparing four convenattack just over a week ago. But protesters missed their of maize with the genetically intended target and were said modified ones.

by scientists to have de-stroyed years of research into how foreign varieties of have on national trials of the maize adapt to British grow- genetically modified crop, but ing conditions the loss of one of the four trial

The trial site was recently crops was "very important". at the centre of an unsuccess-Mr Watson, who farms orful legal challenge by Guy Watson, a farmer who fears ganically, said: "It is unfortu-nate and I wish that it hadn't cross-pollination from the come to this, but there are genetically modified crops | countless precedents through could lead to him losing or- history. Look back to the Tolganic status for the sweetcorn | puddle Martyrs - I think alne grows nearby on his 800 most everybody today would think they had a very good acre farm.

The Court of Appeal last month turned down Mr Watson's attempt to halt the ex-periment despite finding that the Government had research and looked into it, an illegal act is justifiable." • Environment Minister

Police were called to the Michael Meacher yesterday site on Monday night after se-curity guards employed to different strain of genetically mount 24-hour patrols, in the modified maize despite wake of last week's attack, research showing it could kill reported seeing up to 20 beneficial insects. Mr people in the field damaging Meacher said the crop would the crops. Officers arrested not be banned but more eight men and four women. research was needed to see if A statement issued by the lacewings, which eat crop Genetic Engineering Network | pests, were killed by toxins said that "concerned citi- bred into the maize. Friends zens" had taken direct action of the Earth said that in per-"to prevent pollination of a mitting the crop Mr Meacher genetically engineered crop". had abandoned the precau-The protesters said they | tionary principle.

Westminster ban on modified food

Lucy Ward

department ban emerged in a written Commons answer last **Political Correspondent** month from the committee chairman, Dennis Turner. Replying to a question from A Ps are to launch an in-



oher whose grave attracts people from all over the world in cemetery protest

d be impossible to distinh between them and mourners. seems to me inconceivhat the court should be osition of having to enhe order to select those hould be evicted and i't be evicted." uling delighted Arnos mpaigners who gaththe court steps to e decision. ey Jones, aged 48, laughter's cremated were scattered at ale, vowed to confight to keep it open. e have ever wanted pay respects to our Surely this is not to ask." mer, who was not at ng, said he was disbut declined to say Campaigners celebrate at Arnos Vale after their victory

ould do now

O distal

10 August 98 Devon



to be asked to oppose the spread of genetically modified crops by They will also continue to signing a pledge to ban them press for local education authorfrom their land. ities in the region to take GM Campaigners say six farmers food off school menus.

have already signed up and the already distributed 20,000 programme is to be spread rough Devon and Cornwall. leaflets in South Devon and new "We are asking farmers to sign local groups are due to be set up

to say they will have a moratori- in other parts of the region to um for at least five years, so that increase publicity about the they will not have GM tests or anti-GM cause. commercial crops on their land Around 400 people attended a

in that time," said Luke Ander- rally at Totnes Civic Hall at the son, co-ordinator of Totnes weekend, five days after 12 peo-Group set ple were arrested at a nearby

Campaigners say they have

• ALL EARS: Totnes MP Anthony Steen listens to the concerns expressed by speakers at the protest meeting





1 . 1



Luke Anderson, of the Totnes Genetic Engineering Group, addresses the Illy as local MP Anthony Steen looks on centre left. Also at the table are ganic farmer Guy Watson and environmental author Andy Rowell.



Paignton this The Herald Express has got together with become a GMO-free zone. channel for kids - and Telephone and Cable with farmers signing up to a to celebrate the arrival of moratorium on planting GM



whatand

HERALD EXPRESS CO

10 August, 1998 World in Action Eat up your genes – 150 seconds that changed Arpad's life

 'We're assured that this is absolutely safe. We can eat it all the time. We must eat it all the time. There is no conceivable harm, which can come to us. But as a scientist looking at it, actively working in the field, I find that it's very, very unfair to use our fellow citizens as guinea pigs. We have to find guineapigs in the laboratory

'If I had the choice, I would certainly not eat it till I see at least comparable experimental evidence which we are producing for our genetically modified potatoes.

• I actually believe that this technology can be made to work for us. And if the genetically modified foods will be shown to be safe, then we have really done a great service to all our fellow citizens.'

13 Aug, 99: Irish Times: Pusztai suspended

ections =	THE IRISH TIMES	Subscribe
Ireland		
Scientist in	n food safety controvers	sy suspended
	o claimed his research had raised o odified (GM) food for consumption	
Kevin O'Sullivan Thu Aug 13 1998 - 01:00		LATEST STORIES >
() 🎽 🕓 🚦		McGrath says he will not be bullied over ta breaks in next budget
antety of constigning modified (CM) food for consumption by hymony		Dáil told of family whose child will not get assessment of need appointment until 2028
incomplete research.	The Rowett Research Institute in Scotland said	King Charles and Queen Camilla land in Northern Ireland for two day visit

Sep / Oct 1998

The Ecologist



"When the earth has assumed its artful adornment and has been embellished, and they who dwell on it believe that they have gained mastery over it – there comes down upon it Our judgement, and We cause it to become like a field mown down, as if there had been no yesterday." A summer



The Monsanto Files Can we survive genetic engineering?

The following article by HRH the Prince of Wales appeared first in the Daily Telegraph. The editors of The Ecologist were moved by its depth and tone, and obtained permission to republish it as a contextual introduction to this special issue on the subject. We emphasize that the views expressed in this special issue should in no way be associated with those of the Prince. However, we thank him for his courage in speaking out on this vital issue.

Seeds of Disaster by HRH the Prince of Wales

have always believed that agriculture should proceed in harmony with nature, recognizing that there are natural Llimits to our ambitions. That is why, some twelve years ago, I decided to farm organically - without artificial pesticides or fertilizers. From my own experience I am clear that the organic system can be economically viable, that it provides a wide range of environmental and social benefits, and, most important, that it enables consumers to make a choice about the food they eat.

But at a time when sales of organic food are soaring, a development in intensive agriculture is actually removing a fundamental choice about the food we eat, and raising crucial questions about the future of our food and of our environment which are still to be answered. Genetically modified (GM) crops are presented as an essentially straightforward development that will increase yields through techniques which are capable of interbreeding with their wild relatives, creating new merely an extension of traditional methods of plant breeding. I am afraid I cannot accept this.

The fundamental difference between traditional and genetically modified plant breeding is that, in the latter, genetic material from one species of plant, bacteria, virus, animal or fish is literally inserted into another species, with which they ould never naturally breed. The use of these techniques rais-, it seems to me, crucial ethical and practical considerations. I happen to believe that this kind of genetic modification kes mankind into realms that belong to God, and to God

one. Apart from certain highly beneficial and specific medapplications, do we have the right to experiment with, and nmercialize, the building blocks of life? We live in an age ights - it seems to me that it is time our Creator had some seems to presume that unless a GM crop can be shown to be unsafe, there is no reason to stop its use. The lesson of BSE and other entirely man-made disasters in the cause of "cheap food" is surely that it is the unforeseen consequences which present the greatest cause for concern.

We are told that GM crops will require less use of agrochemicals. Even if this is true, it is certainly not the whole story. What it fails to take into account is the total ecological and social impact of the farming system. For example, most of the GM plants marketed so far contain genes from bacteria which make them resistant to a broad-spectrum weedkiller available from the same manufacturer. When the crop is sprayed with this weedkiller, every other plant in the field is killed. The result is an essentially sterile field, providing neither food nor habitat for wildlife. These GM crop plants are weeds with built-in resistance to the weedkiller, and of contaminating other crops. Modified genes from a crop of GM rape were found to have spread into a conventional crop grown more than a mile away. The result is that both conventional and organic crops are under threat, and the threat is one way.

GM crop plants are also being developed to produce their own pesticide. This is predicted to cause the rapid appearance of resistant insects. Worse still, such pesticide-producing plants have already been shown to kill some beneficial predator insects as well as pests. To give just two examples, inserting a gene from a snowdrop into a potato made the potato resistant to greenfly, but also killed the ladybirds feeding on the greenfly. And lacewings, a natural predator of the corn borer, and food for farmland birds, died when fed on pest insects raised on GM maize. 111 In the he involved,

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important, that is enables consumers to make a choice about the food they cat. But at a time when sales of organic food are scoring, including the solution of the solution which are a solution of the soluti count never namually preed. Inc use or these techniques rais-own periode. This is predicted to cause the raput appearance (s, it scens to percent) and practical considerations, I happen to believe that this kind of genetic modification takes mankind into realme that belows to Goot and as Goot

Thappen to believe that this kind of genetic modification takes marking output of the second of the connectance, ne tunning mecks or mer we nee in an age the greenfly. And hectwings, a natural predator or no set of rights - it is sense to me that it is time our Creator had some bore, and food for farmland birds, died when fed on pest notice me right, too. We simply do not know the long-term consequences for hread in the wider environment of releasing plans bred in this way. We are assured that these new plants are viz-orously tested and regulated, but the evaluation procedure in the same plant of the agricultural disasters of the past which have stemmed of the agricultural disasters of the past which have stemmed

The Ecologist, Vol. 28, No.5, September/October 1998

SEEDS OF DISASTER

from over reliance on a single variety of a crop, yet this will encourage it is activated will be that within 10 years virus and year of staple crops, metha sev of staple crops, metha sev of staple crops, rec, will be from a few GM varieties, unless consume rec, will be from a few GM varieties, unless consume of the above, the potentially damaging consequences for official houles he potentially damaging consequences for the environment of introducing GMp crops on a wide scale. They have called for a morato-rium on the use of at least one of these crops. Once genetic material has been released into the environ-ment it cannot be recalled. The likelihood of a major problem Interinced of a major problem may, as some people suggest, be slight, but if something does go badly wrong, we will be faced with the problem of clearing up a kind of pollution which is self-perpetuating. I am not convinced that anyone has the first idea of how this could be done, or indeed who would have to your

would have to pay. We are also told that GM techniques will help to "feed the world". This is a fundamental concern to all of us. But will the companies con-trolling these techniques ever be able to achieve what they would reased would regard as a sufficient return from selling their prod-ucts to the world's poorest people? Nor do I believe that the basic problem is always so

the basic problem is always so simple. Where the problem is lack of food, rather than lack of money to buy food, there may be better ways of achieving the yields from some traditional farming systems can be doubled, and even trebde, through techniques that conserve natural net skills.

brought massive benefits to mankind, but there is a danger, effectively through science and regulation alone. Is it not bet-ter to examine first what we actually want from agriculture in terms of food supply and security, rural employment, environmental protection and landscape, before we go on to look at This article first appeared in the Daily Telegraph. A contrib the part genetic modification might, perhaps, play in achieving made to The Prince of Wale

The Ecologist, Vol. 28, No 5, September/October 1998

Do we need to use GM techniques at all? Technology has our principles into practice until there is effective segregation rought massive benefits to mankind, but there is a danger, of genetically modified products, backed by a comprehensive especially in areas as sensitive as food, health and the long-labelling scheme based on progress through the food chain. term future of our environment, in some many and the store stabilisting what is technically use inding all our efforts into a stabilisting what is technically use should be dong. I believe choice about whether on on the year products containing to ask whether this is something we should be dong. I believe choice about whether on the type at products containing we should stop and ask that question, through a wide public genetically modified ingredients, they will be able to send debate of the issues of principle which cannot be addressed direct and unmistakable messages about their preferences. I

27 December 1998 The Observer



Protests like this one in a Lincolnshire field of genetically modified sugar beet are helping US and Japanese companies. Photograph by Andrew Testa

ALL NU And in way? St Mayor that? N thinkin version Kidma sold ou

Europe to lose gene harvest

Consumer suspicion has sown seeds of future agricultural collapse, biotechnologists warn

'It is not just a matter of people simply disliking bio-	 only obvious beneficiary seems to be Monsanto.' Such remarks revealed a widespread irritation with the US biotechnology company, an antipathy that was almost as intense as that reserved for Green activists who have so successfully opposed gene crop growing. Many scientists believe the seeds of their woes were sown when Monsanto tried to buil- doze its genetically modified soya into Europe last year products, thus confusing the issue of labelling and trigger- bus chemology. If you have oil that comes 	Bioethics and Law. The answer is yes, because we label foods not just for safety but to allow people to make informed choices. This choice was blocked by Monsanto when it brought modified soya into Europe, al- though in the past few months intense tobbying has led supemarkets to mark some foods — such as cake mixes and, breadrumbs used on med and fish — as 'possibly containing enetically altered foots. For gene crops, such action for buttle, too late. Green foots a focus for their angert, suddenly found the perfect	Dixon, one of the conference's conveners. That is why this storm has broken over the industry's heads." As a result, such plants are not yet grown commercially in Europe, though trial plant- ing is being carried out How- ever, in the US, Japan and other countries they are grown widely — presenting a clear threat to Europe If as scientists predict, genetically modified plants prove to be cheaper and easier to grow, then prices will underout those of standard varieties. European crops will become incompetitive on word mar- kets and our farms will require increased subsidies of nave to close.	rective undermines public confidence, needlessly dupi- cates existing regulations, generates pointless trade dis- putes and is causing grave and increasing damage to the com- petitiveness of Buropean agri- culture and industry', he said. The huge opportunities of fered by biotechnology are being squandered in Europe. Cantiey said European bio- technology was now para- tysed by self-perpetuating reg- groups with a talent for posing "what if? questions. This had induced chaos, a point backed by Dr Maurice Lex of the Euro- pean Commission. We have spent 520 million and used th services of 260 laboratorie across Europe on researchin across Europe on researching.	AF ove Cli e Pr e wo g las kr
bly damaged. 'It is not just a matter of people simply disliking bio- technlogy,' said one delegate at the Brussels meeting. People will happily take med- cines and vaccines made by d	ing the current battle against biotechnology. If you have oil that comes from a genetically modified plant, and it is chemically identical to the oil that comes from a standard plant, is there	dustrialisation of farming but	have to close.	spent Loo minutes of 260 laboratorie across Europe on researchin into the safety of gene crops. We have looked and looked and looked and have not see any problems. How muc more taxpayers' money are w	s wl g las kr d rig n de h se

12 Feb 1999, Guardian





Side

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12 Feb 1999 Guardian editorial

The Guardian

Friday February 12 1999 Edition Number 47410 119 Farringdon Road, London EC1R 3ER Tel No: 0171-278 2332 Fax No: 0171-837 4530 E-mail: letters@guardian.co.uk Website: http://www.guardian.co.uk

Flaws in the food chain

We need a moratorium

(which yesterday voted for legislation that releasing organisms). Yesterday, the Consumers Association urged the Government to block further GM products pending over-

There is a case for calling a halt if only to allow time for the fog to lift. Let's be clear: when an issue like this is complicated by White House

must be tested in a far more rigorous and third lesson is to underline the necessity of UK. Current independent way even than other food labelling every food product that currently Hague as muc products. The understandable desire of contains GM constituents in a clear way so what to do to re

Letters to the Editor

pioneering corporations to get an early leople at least return on the vast sums they have invested must not stand in the way of protecting the consumer. Memories of BSE are still too food chain when doubts remain. There are several lessons to be drawn Ir Hague w? eople and exv

from the disturbing reports we published THE PRESSURE for a moratorium on Arpad Pusztai linking genetically modified ther research band of the research ban THE PRESSURE for a moratorium of Al part used to health risks led an international genetically modified food — at least until group of 22 scientists to express their conmore rigorous testing has been done — is group of 22 scientists to express their conbeginning to look like a tidal wave. It has cern to the Guardian. The first is that if the beginning to look like a tidal wave. It has produced an unholy alliance of William safety of GM foods is a real issue — and it is hand then the research on which it is hand Hague, John Redwood, leftward-leaning – then the research on which it is based Hague, John Redwood, lenward-learning must be open and beyond contention. The Lesson (results of studies on rats of the kind Dr could make biotech companies legally Pusztai has conducted are notoriously diffi- IT HAS be cult to transfer to humans. If they had been politicians we would have cured cancer ages ago. But Atlantic. S that's not the point. Animal studies are our on the stri haul of the regulatory system — the first that test there is no point in pursuing it for Bavaria, an first line of defence and if research fails right partie humans unless proved otherwise.

genetically modified food may turn out to the spectre of business, science and gov- lier this wee be one of the great achievements of the ernment forcing through an unwelcome iation were twentieth century that will enrich our lives and uninvited extension of the run of foods in the middle and bring cheaper, pesticide-free produce. on the public when the question how dan-Talk of Frankenstein foods is completely gerous they could be is unanswered. Pro- only mana misleading. In the much longer run it may tagonists of GM foods would argue that it is Republican help to feed the poorer parts of the world by a bit ironic that a public addicted to syn- would have producing crops that grow in conditions of thetic or junk foods should start worrying can offer li drought or salt (though no one yet knows about tiny genetic alterations to staple wracked as i how to do such things). But because of its crops that have been undergoing genetic both its strat very nature — manipulating the life alterations by random mutation, accident moral conser process itself — it involves a huge leap into and natural selection for thousands of lican party in the unknown that could have truly fear- years. But, again, that's not the point. We onto the rocks can't rewrite the past, we can affect the over aspects o It is for this reason that new products future. And we simply don't know. The abortion which

Of sheep, apes Making the disabled pa

13 Feb, 1999 The Express



13 Feb 99 The Express



13 Feb, 99 The Express

AS TEAM OF EXPERTS BACK HIS FINDINGS, GOVERNMENT STOPS HIM TALKING This scientist revealed the perils of GM food. Now he has been gagged for life

EXPRESS CAMP

BY JOHN INGHAM AND LORNA DUCKWORTH THE eminent scientist sacked for raising health fears about genetically modified foods is under a "lifelong" gagging order, The Express can reveal today. Professor Arpad Pusztai, whose shock findings were vindicated yes-terday by 20 top scientists, is banned from speaking to the press without the permission of his former employ-ers, the Government-funded Rowett Research Institute in Aberdeen.

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VINDICATED: GM food whistleblower Professor Pusztai outside his Aberdeen home yesterday

HECTOR BREEZE ROWETT RESEARCH INSTITUTE

HEATEN "I think this potato is

perfectly safe to eat, but then my brain is getting smaller

Chaos in store over lack of guidance on the shelves

FOM PAGE ONE The Market and the stars of th ther delay could cut giant Novartis sponsored a

1000 Contract



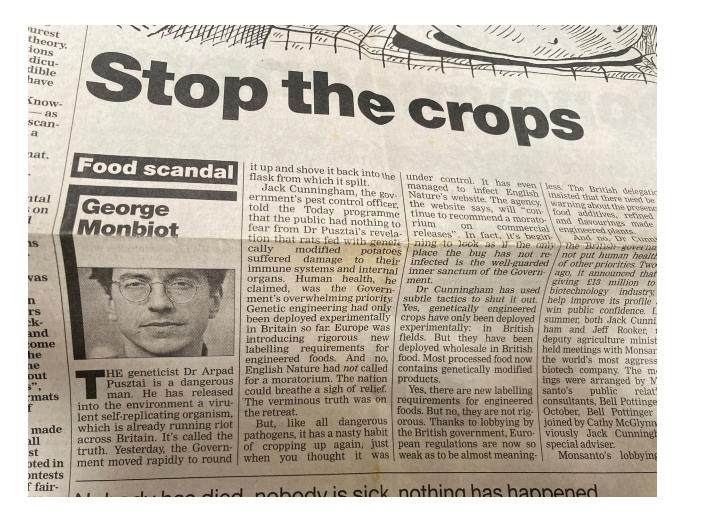
13 Feb 99, Guardian Letters pagedate

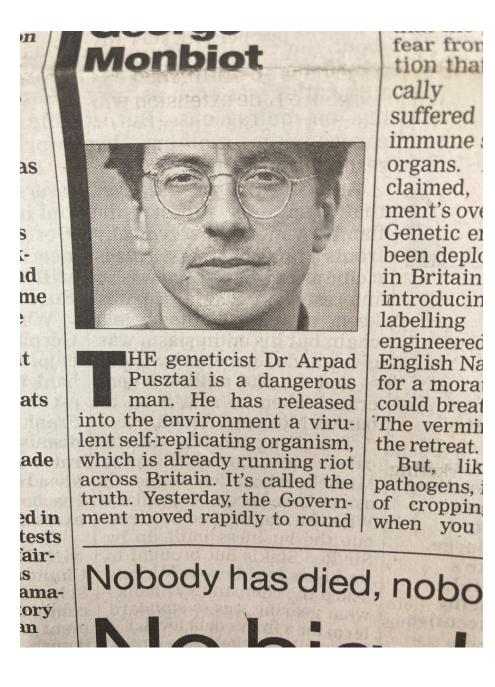
ediate impact is political. The losers. The president may have retained his resultion of President Olivered What there is the other the xecution of President Clinton Houdini knack for escaping disaster and nation wanted. Which brings us to the on s to the Editor

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llow "democrat	independent inquiry into	into potatoes, then feed the	ing "may feed the world". The single most important cause of world hunger is now	V E
politicians to	the cirumstances of the	potatoes, raw, to growing rats.	of world human	Si.
iselves, free and n't edit the		The growth of the rats was		1/14
bruary 10). Pre-	Pusztai from the Rowett Insti-	stunted (allegedly), their gut was damaged and their		11/4
bour MPs can	tute (Food scandal exposed, February 12). We need to	immune system compro-	billion people —yet more than 1 billion did not have energy	11/2
ay their pages	know why the institute	mised. Of course they were,	to get It is income to chough	11
message".	decided to force out and gag	this is what lectins do. African	ution of food that h	AL
• (13) (1.088)	such an eminent scientist for	women have known of these	lions hungry: the result of	13 4/1
ALC: NO CARGE	speaking out about the health	effects for thousands of years.		1. A
is recent fuss	risks of genetically modified foods.	They do not panic. They cook their beans.	debt repayments, and poverty.	12
e guests on TV	It has been widely	All this experiment has	We fear that the multina-	Carl -
bit concerned	rumoured at the institute and	demonstrated is that you can	tional biotechnology indus- try's push to get its patented	NX
y Blair who	in parliamentary circles that	genetically engineer lectin		
ichard and Judy	political pressure at the high-	into a potato and it will con-		1 1-27
about Glenn ncarnation.	est levels was brought to bear	tinue to act like a lectin. What		AL
rn.	on the institute. The inquiry must ask what contacts, if any,	this experiment is not, is con-		No room
	there were between ministers	troversial. So far as it goes it is entirely predictable.	ously they had saved them to	1. 1. 1. 1. 1. 1.
Chilles Part and	or their officials and the senior	Prof John Webster.	reuse year after year. Isabel McCrea.	T HAS been esti
n it be before	management at the institute	University of Bristol.	Action Aid.	• the Millennium
g fake TV indus-	prior to Dr Pusztai's removal.	and a state of the	a the second second second second second	
m version of version version	It is utterly unacceptable	SCIENTISTS must have the professional independence	UCH of the opposition to	Pean davs Acour
nd.	for politicians to seek to silence free scientific debate.	Oprofessional independence	W modified food is based on	going to be as goo admission price s
ALL SG CARLES	If this has happened, those	to be able to present their find- ings without fear of dis-	functanacy mat what is nat-	
	responsible must be exposed.	missal. Mrs Thatcher	ural is healthy and safe while man-made products are dan-	eral nours. It is t
igon took noth-	Charles Secrett.	removed the protection of	gerous. Many plants are poiso-	unreasonable to
in its title from	Director, Friends of the	academic tenure, which did	nous, some have harmful	during the busie
ge show (Let- 12), a revue	Earth.	not apply to all scientists but	diseases and most drugs of	such days there people inside at
and Adele	WISH to introduce a note of	made it difficult for many of	addiction (cannabis, onium	People histac at
m's working	cool reason into the affair of	them to be sacked just because their results might offend a	cocaine and tobacco) are nat-	a management
Louisa, from a	Dr Pusztai and the hot potato.	major financial backer.	ural plant products. Nature	Junkma
ned in the	Although I write as an indi-	If this government has any	has created and destroyed many and may well do the	Caritte
s with Singin'	vidual, I represent the Nutri-	intention of protecting the	same to man unless science	N COLUD common
ducer Arthur ly grabbed a	tion Society on the governing	public interest against the	can intervene.	YOUR correst ters, Februa
he air and	body of the Rowett Research Institute. Thus I know the plot	financial priorities of food	John Sutherland.	"How much los
omden and	in some detail. I am also chair-	and agricultural industries,	Croydon, Surrey.	junk faxers ar
write an orig-	man of the newly established	now is the time to show it by restoring some form of protec-	and the second sec	nalised?" The
around it.	Food Ethics Council. It follows	tion for scientists in positions	SHEILA McKechnie (Food	months and 19
shine	that I believe absolutely that	such as that of Dr Pusztai	Sfright, February 10) simply	May 1 it will t
shire.	all genetically engineered	Dr Roger Bayston.	jumped on the fashionable	unsolicited d
can it be possi-	foods should be ruthlessly	Woodthorpe, Nottingham.	industry-bashing bandwagon. Food and drink is the largest	faxes to a dor
lon't know	screened for evidence of any harm to man, animals or the	IWAS -L . I / I	manufacturing industry in	the subscrib
brother-in-	environment.	WAS shocked to learn that	the UK. It employs 500 000 neo	permission. sible (in the
d with his	Dr Pusztai and his col-	Dr Pusztai was forced to retire. Surely he should have	ple, all dedicated to producing	unwanted sa
k and Vicky	leagues have been studying	been fired — not for disclos-	safe, wholesome, tasty food at	a home telep
vler (TV	the effects of natural and	Ing the effects on the devolor	affordable prices.	ing that you
12)?	genetically engineered plant	ment of the kidney thymus	The GM issue is not as black	Any salesper
The second second	lectins on the growth and	spleen and gut of the rate fod	and white as it is painted. The UK imports less than 1 per	you without
Friday Carrolling	health of rats. Most nutrition-	on GM potatoes, but for failing	cent of the US soya harvest.	1ster, will be
ething in	ists will recognise lectins as anti-nutrient substances	to disclose the effect on rate'	However, UK manufacturers	Paul Ticher
	which damage the gut and	brain size because he judged	are committed to providing	Leicester.
		that the political repercus- sions would be too severe.	information for consumers.	A LL my in
		Alan Heslington.	The industry spends mil-	ALL my ju through t
and the states	concentrations in some tropi-	Whitley Bay, Tyne and Wear.	lions of pounds on consumer surveys, and our customers	accompanyi
and a state of the	cal seeds and beans where	ing buy, i ghe and wear.	vote with their nurses avour	envelopes an
	they act to protect the plant	HILE we commend your	week at the checkout If per	With the add
etters where a ress is	against pests and diseases.	V V call for a moratorium on	ple don't want our producte	purchased fro institution, I
clude a postal	What Dr Pusztai and his	GM foods and crops, Action	we find out the hard way.	Durchase envi

Martin Pate

Guardian – 13 Feb 99





14 Feb, 99 Observer



14 Feb, 99 Observer

"genetic food storm"

The Observer 14 February 1999 Focus Genetic food storm public won't swallow Buyers look to the labels for reassurance FIONA SNOWBALL and Jackie ready-made meals to expand its own-brand medicines as a O'Connell have just spent what is regarded as a finite thickening agent, adding to more than £200 on their market for groceries. These the already enormous range of weekly family shops at curries, pastas and noodle products that contain GM Sainsbury — with six kids be dishes are exactly the sort of elements. tween them there are plenty of products most likely to con- Some local authorities such biscuits, cakes and cereals tain modified maize or soya. as Leicester City Council have packed into tvo large trolleys. At Sainsbury, the beef decided not to wait for the This weekend, though, they risotto, chow mein and scientists and politicians to have read bout Franken- chicken Buffalo wings had slug it out. They have taken stein foods' and for the first labels declaring they contain genetically modified food off time paid particular attention GM ingredients. Its own inforto the tiny former of the fruit mation sheet said that as few The county's secretary and and vegetable aisles reserved as 40 products contain geneti- national vice-president of the and vegetatic distes reserved as to produces contain geneti-any modified soya. Parent Teacher Association, "I am screed about what I'm At Tesco many of the ready." Peter Ripon, accused the for organicproduce.

Tam screed about what I'm giving the kids, 'says Fiona. Their Nai says she at everything in ler day and she's all says and they's and they's and the sagne and lamb rogan ing food rink stuff then, were they? I', bought organic stuff a bit blore but today I've boughtverything they've got hough they have bit blore but today I've boughtverything they've hardy thouga and they've hardy solution to the solution the solution to the solution to the solu

thoug and they ve hard way, have found relatively it way, so we found a solution of the soluti

ndvect to start tabelling the food nd make it more simple of a lifetime. Only Iceland has anof a lifetime. Multiple in the second food in the source is will be a lifetime. Multiple in the second food in the source is source in the source is more on information a food instead of the second food in the second food in the source is source in the second food in the source is more on information a food instead of the second food in the second food in the source is source in the second food in the source is source in the second food in the source is source in the second food in the source is source in the second food in the source is source in the second food in the second food in the source is source in the second food in the second food in the source is source in the second food in the second food in the source is source in the second food in the second food in the source is source in the second food in the second food in the source is source in the second food in the sec

should s more on information a food instead of advertisim hat's the point of giving t sorganic vegtables if just feeding field 1,500 of its 10,000 ownside ndon ven't ychti h orany zeit's Ingredients: Noodles (Wheatflour, Vegetable Oll, Sall), Wheatflour Tomato Flavour (Flavouring, Control Danier, Sall), Wheatflour Texturised Soya Devises (produced from genetically modified s Vegetables (Tomasa, Control Danier, Sachat: Tomato, S

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> New Sky sub the widest rai available, Sk Family Pack you subscr

14 Feb 99 Independent on Sunday - GM foods campaign



14 Feb 99 – Independent on Sunday – letters page



Guardian



Dr Cunningham insisted to BBC TV: "David Sainsbury is other embryo research Michael Meacher: won formed the basis of the 1990 support from backbenchers

Embryology Act. A GM food Sainsbury to be moved from commission could have pow- his position and replaced with member of the ministerial ers to scrutinise and poten- an "independent" minister, team." tially filter out proposed arguing that, though the min-Shadow agriculture minisexperiments on GM crops, ister's shares are held in a ter Tim Yeo pointed to revela-

could make policy recommen- blind trust, his large holding tions that David Hill, Labour's dations and would be in the family business was chief spin doctor until a year designed to boost flagging widely known. ago, now advises Monsanto on The ethics commission media strategy through the

Government is listening to all scheme, floated by environ-

Government is listening to all the arguments on the contro-versial subject. Revelations that the Gov-ernment offered genetic engi-meering companies, including Monsanto, millions of pounds in inducements to expand firms involved in GM food firms mixed with the Gov-ernment voer GM food safety from concerned Labour back benchers at the weekend after af unducements on the convergence of the first of the same spectra form concerned Labour back benchers at the weekend after af oruge is canvassing fellow ernment would have to "think form benchers at the weekend after af unducements to expand firms involved in GM food ernment would have to "think form spectra the weekend after af oruge the the first of have met government officials again" over GM foods and pos- MPs' support for the move. or ministers 81 times since Labour was elected have fuelled Opposition claims, some GM crops. But Cabinet products were sold in the UK echoed by some Labour "enforcer" Jack Cunningham were also challenged by the bacbenchers, that the Govern- insisted no halt would be pressure group Genewatch,

Proposals are being floated

the

for a powerful new grouping

Warnock Committee on

embryology whose recommendations on cloning and

Human Fertilisation and

public confidence that the

along the lines of

Paddy Ashdown, said the Government had "miscalculated" the public attitude to GM

a man of complete integrity He has no financial interest in these or other interests while he's serving in the Government. He's a very valuable

public relations firm Bell Pot-



Secrecy row ove to experiment or

Guardian



Daily Mail



19 Feb, 99 Guardian



Entire culture 'is in

<section-header><section-header><text><text><text><text><text>

disparate and shifting requirements of modern society' lan Blair (left)

*Even at its best, police culture is work, hi even its best if not fitted to handle the metage the metage of police culture is best if not fitted to handle the metage the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best if not fitted to handle the metage of police culture is best not fitted to handle the metage of police culture is best metage of police culture is best metage of police culture is not fitted to handle the metage of police culture is metage of p

 Modernisation
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senior police officers said The Chief Constable of Surv Treg I and Bait to be changed. The police are the avoid of a shore on a star reacting senior survey is a star for the star of the



Sunday Times

The mad forces of genetic darkness

mid the high comedy of culable effects on ministerial confusion and the whole living the continuing public rela- environment. This tions disaster that is Mon- complexity, this santo, one serious point has ignorance, is the emerged. When it comes to geneti- true context in cally modified (GM) foods, nobody which the GM really knows what they are talking food debate about should be seen. Powerful forces have attempted to Since recomconceal this ignorance. Globalised binant DNA apbusiness, genetic propagandists and peared, too many their fellow-travelling philosophers, scientists have be-

overambitious scientists, stock mar- come overket speculators and harassed govern- confident. At first ment officials have attempted to there was panic. push through radical and uncertain There were fears technologies. They have chosen to of a biological ignore what all good scientists weapon more teracknowledge - that the science of rible than the

just about, the genetic alphabet, but isms escaping from the laboratory to Gummer, then minister of agri- biodiversity is an essential guarantor we have no idea how to speak the infect humans or crops. This is not generally understood. Asilomar, California, in 1975, knew nothing about it or, if he did. Hubris is the constant threat. No Since the deciphering of the mol- American scientists effectively he merely found a paper in one of his idea is more intoxicating than the ecule of DNA by James Watson and called a halt to their work. Francis Crick in 1953, biology has The anxiety rapidly subsided. As perts'' said it was okay. What choice processes of life. Scientists are humade astonishing advances. We now Watson has pointed out: "There is did he then have? have the complete DNA sequences no evidence that anybody ever got - the code in which the genes are sick from a recombinant DNA what choice did the prime minister problem is that, precisely because of written - of some primitive or- experiment." It was realised that have but to endorse the expert find- the effectiveness of science, their quence. We have identified the appeared to be safe. genetic origins of many diseases Since then the growth of biologi-

and, speculatively, of certain per- cal hubris has been exponential. by the case of Dr Arpad Pusztai, able efforts, established in many modify crops and animals. Impressive as these advances may that it is as safe to shuffle genes in was right. In reply the genetics lobby Above all, scientists should feel the world as it is in the lab. We do has said the work was irrelevant free to express their fears, whatever

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For the re-

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whose full

complexity we

are only now

beginning to

grasp. Genes

for abortion.

reveal the depths of our ignorance. not know that because we know very because the potatoes were delib- the pressures, and the rest of us Even when, for example, we have little about the complex interactions erately made toxic. But why, in that should listen very carefully.



Bryan Appleyard

ganisms and we are within five or 10 wild organisms, with evolutionary ing that GM foods were safe? Some-mistakes tend to be catastrophic. years of having all 3 billion chemi- resilience, would quickly overcome where at the root of all these At this moment in science we cal letters of the complete human se- any laboratory escapees. Genetics incidents there is a figure clothed in must, above all, respect our igthe authority of science. This complacency was detonated Monsanto - now, by its own laugh-

sonality traits. Since the early 1970s, Now, we are told, genetics is on the whose work appeared to show dam-peoples minds as the most sinister the "recombining" of DNA has en- brink of extending life, conquering age to rats caused by eating GM po- company in the world - and the abled us to shift genes around - the disease, disseminating happiness tatoes. The work was suppressed technology that now allows us to and feeding the world. But this con- and Pusztai was suspended. A group are not, in this context, to be taken fidence is based on the false premise of scientists subsequently said he seriously.

Anthony Barrington-Brown



blueprints. It is up to scithis clear what- falsehood that none of it can be.

tions. There have on genetic modification in a report been far too many that the government appears to have attempts to evade been trying to suppress. Sir Robert this responsibility. May, the chief scientific adviser, has It has been warned of the extinction of wildlife claimed, for species as a result of the widespread example, that the use of GM crops.

Since we are in the midst of a BSE crisis was nothing to do with global species extinction rate that is science. This is in danger of matching that which degenetics is in its infancy. We know, hydrogen bomb and of rogue organ- absurd. Do these people think John stroyed the dinosaurs, and since culture, dreamt up the idea of feed- of our continued existence, this As a result of a conference at ing sheep to cows? Probably he amounts to a very serious warning. red boxes assuring him that "ex- one that we can take control of the man beings. Like the rest of us, they Similarly, in the current crisis are prone to overambition. The

norance. The crass lobbying of economic pragmatism of politicians

In that sense, appalling as this episode has been for Monsanto and the government, it has been good for science and democracy. It has made us all aware of the true scale of this issue and increased healthy scepticism about the motives of some of the leading players. And it has emboldened many scientists to admit to their doubts, not an casy thing to

26 Feb, 99 Financial Times leader

FINANCIAL TIMES FRIDAY FEBRUARY 26 1999 *

FINANCIAL TIMES Number One Southwark Bridge, London SE1 9HL Tel, 0171-873 3000 Fax: 0171-407 5700 Friday February 26 1999

Genetic seeds of discord

The failure this week of talks in make still harder the task of ting trade in genetically modified talks resume in 18 months, and of gleaming new 5-litre sport utility (GM) crops and foods might, at bridging EU-US differences on vehicle; clutching the \$4 cup of another time, have elicited only GM products. Indeed, there is a steaming latte from the local cofpassing interest. But the recent risk that US obduracy in Carta- fee shop; shouting instructions to outcry in Europe about these gena will hand ammunition to a broker on the mobile phone, or products and the bitter recrimi- those in Europe who claim its using up phone lines in airport nations at the meeting give the sole purpose is to promote the outcome greater significance. It interests of American exporters. not only shows how widely coun- The Cartagena debacle is the tries differ on this contentious more regrettable, because at the issue; it could make solutions core of the debate lie serious still harder to find. The talks envisaged a treaty over GM foods are just one

requiring exporters of GM prod- admittedly glaring - example of ucts to obtain prior approval growing tension between public from importing countries. Devel- concerns about health and envioping countries, with European ronmental safety, on the one Union support, say they need hand, and open markets and the total yearly output of one of such safeguards against health world trade rules on the other. and environmental risks, which The problem arises, in part, they lack the capacity to assess from mutual misunderstanding or control. But several farm and ignorance on both sides of exporting nations, led by the US, the argument. Environmental resisted the proposal, saying it and health policies increasingly could unduly restrict trade and affect, and are affected by, interconflict with World Trade Organ- national trade and investment. isation rules.

Mutual mistrust among the ments, these policies are formuparticipants helped turn discord into deadlock. The US suspected the EU of conspiring to use the talks to foment international opposition to GM products and justify closing its own market to them. The US, in turn, was trade rules as a pretext to sabo- quickly enough to resolve half the already meagre 2 per tage a plan which threatened the current disputes over GM prodbusiness of its biotech industry ucts. But tackling it now is the The acrimony and polarisation such discord in the future. and farm lobbies.

without collapsing into a recessionary heap, it might consider offering its prayer of thanks to that most caricatured of modern economic phenomena. the American consumer. To the casual observer, she (and it is very often a she) makes an unlikely heroine. Blocking out Cartagena, Colombia, on regula- reaching agreement when the two car-parking spaces in her

> lounges shopping electronically this conspicuous consumption may not be socially and aesthetically pleasing

COMME

Alan Greer

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Irre

f the world survives the the

past year's financial turmoil

But so far it has been the irrepressible exuberance of the US consumer that has kept the world economy going.

US spending on personal consumption rose by \$334bn in 1998. an annual increase equivalent to the medium-sized economies of east Asia. Between the fourth quarter of 1997 and the fourth quarter of 1998, consumption expanded by almost 7 per cent in real terms, the fastest year-onyear rate of growth in 15 years. Spending on durable goods - all those fast cars and faster comput-Yet even in national governers - rose by 13 per cent.

If US consumption had been flat rather than buoyant, the economy would have eked out a mere 0.7 per cent growth rate last year, rather than the 4 per centplus growth it achieved. And the global impact would have been to easy, nor will it be achieved reduce world growth by almost

With the world still waiting for best way to reduce the risks of sure signs of recovery in Japan and anxiously watching indications of a renewed downturn in Europe, the American consumer may still hold the key. But as the consequences at home and abroad of such unbalanced co

issues. International differences

lated with little reference to trade

policy. The consequence is inco-

If the Cartagena talks have

accomplished anything, it is to

underline the need to narrow

that divide. That task will not be

herence and conflict.

1 March, 99 **Financial Times**

nlan

might undermine the global leadership role, to a gap between listed anies and the rest of less, and reintroduce es into UK reporting. nere is an element of to the suggestion that national Accounting lards could allow some es back into UK inting – but the IASC need to develop its antie mechanisms to deal this," said Mr Hughes.

acle

minating this data to ne. While the ONS was to make improvements e old series, it was at in the way it handled rocess. When you proa series that looks very ent to the old one, you a good explanation The ONS did not prothat," says David Waleconomist at Goldman

ADVERTISING Monsanto criticised over modified food claims

NEWS DIGEST

FINANCIAL TIMES MONDAY MARCH 1 1999

Monsanto, the US group embroiled in the furore over genetically modified food, has been condemned for making inaccurate advertising claims in a draft report by the Advertising Standards Authority. The company was criticised for making "wrong, unproven, misleading and confusing" claims in its £1m advertising campaign. The draft report has still to go to the ASA's full council and could be amended, the authority said.

More than 30 complaints were filed by members of the public and groups including the Royal Society for the Protection of Birds and the Soil Association.

The ASA criticised Monsanto for wrongly giving the impression that genetically modified potatoes and tomatoes had been tested and approved for sale in Britain and for claiming the crops were more environmentally friendly than ordinary crops. Monsanto has seven days to challenge the draft before it is submitted to the full council. Charles Batchelor

ECONOMY

Confidence 'picking up'

The Bank of England's monetary policy committee will decide this week whether to cut interest rates for the sixth month running, amid evidence that business confidence is picking up. A survey by 3i, the venture capital company shows today that the businesses in which it has invested have become less pessimistic about the outlook for the the first quarter of the year "sug-

2 March 99

Financial Times

"US threatens trade sanctions"

Remember this headline!

with the same anyone who has the brush. It is particularly sis of important to make the distinction between FTSE 100 trackers and those that follow the FTSE All-Share Index, comprising 828 comthis. panies.

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I share the concerns being the aired over the growing divide between FTSE 100 em. companies and the remain- those from the big banks,

long-term health of the broader UK economy at heart.

It has been interesting to see how the investment establishment has responded to the explosion in demand for tracker funds over the last four years or so. Recent tracker launches, notably

again it seems that our financial institutions are opting for the most sellable short-term past performance message, when the real long-term interests of customers (not to mention British industry!) surely lie in funds with the widest possible investment base.

The overall failure of fund managers to beat the index is no recent phenomenon.

within any index, until there is at least some evidence that active managers are equipped to turn the situation to their advantage.

Richard Branson, chairman. Virgin Direct Personal **Financial Service**, **Discovery House**, Whiting Road, Norwich NR4 6EJ

US has already threatened trade sanctions over GM ban

From Mr Barry Coates. Sir, It is true that the breakdown of talks on the biosafety protocol could "have serious ramifications for international trade" - by calling into question the ability of governments to act in the public interest. ("Breakdown of UN talks on GM crop treaty threatens to heighten trade tensions", February 26.)

The US has already threatened trade sanctions in response to bans on GM organisms. Take the example of Egypt, which in June 1998 tried to ban GM imports from the US unless they were properly labelled. The US threatened to ban all trade in soya beans and maize and, sure enough. Egypt reversed its decision. Such threats to other

developing countries and to interest must come before the European Union are likely in the forthcoming months. The potential for hold the EU and developing these threats to escalate into a bigger trade dispute has already been shown by the US reaction to the EU's support for smallholder banana growers in the Caribbean.

precedent-setter. Either it will assert that the public London SW9 7QR

free trade, or it will be used by US trading interests to countries to ransom. The US has made its position clear. It is time the EU did too.

Barry Coates, director, World The biosafety protocol is a Development Movement, 25 Beehive Place,

Not permitted to act as promoter for City

From Mr Geoffrey Turner. Sir, I fear Clive Sinclair-Poulton (Letters, February 17) misunderstands the role of the Securities Institute. We are a body of individual securities professionals. Our objects do not - and never normit us to got as a

interest groups. Our ethics committee sets and promotes high standards for our members. We act as an authoritative body, researching and consulting in matters of education or public interest concerning investment in securities and regularly consult

closely with bodies such as British Invisibles to help promote UK financial services and London's competitive position. We also applaud the very valuable work carried out by the City of London Corporation in this area, and I would like to

Let's not be off with the old

From Lord Cobbold.

Sir, The prime minister is quoted on the front page of your paper as saying in respect of duty-free sales: "Until we have a proper regime, we should not get rid of what we have at the

9 March, 99 Financial Times



18 March 99 **Financial Times**

ACE JACQUES SANTER Prodi stop-gap between 10 and 12 per cent mmission. of the vote at the European is elections. or his A performance on this get the scale would give it more a strong than half the votes currently By John Willman, rope that enjoyed by Mr D'Alema's o a figure party, the Democrats of the EU state Left. Seven Some commentators supermarket chains have entre-left. inister's entertained the possibility formed a consortium to elimever, is that such a result might inate genetically modified ted by force Mr D'Alema's crops and derivatives from government into a summer | their own-label food prod-Mr Prodi political crisis. ucts. Mr Prodi, whose 28 month ge his government collapsed last by J. Sainsbury, the UK's entre-left autumn, has been second largest supermarket on the tight-lipped about his group, which has also signed ene set up a candidacy for Brussels and up industry experts to help alled the has virtually ruled himself w party out of the running on 100 town several occasions, saying he tonio Di wants to concentrate on his Milan domestic ambitions. layed a However, his aides admit bringing he has been tempted by the nristian Brussels job and would have Political to accept if offered. nk the poll Editorial comment, Page 21 scale' French among equals, and does not under have the power to fire stand incompetent colleagues. This cation lack of strength has also Effelunga of Italy. allowed the Commission's and staff organisations to ioners become powerful. A strike o not last April over reforms presbuildented by Erkki Liikanen, rates) responsible for personnel mmispolicy, terrified the upper iting" echelons of the Commission senior into slowing down the as a reforms. The report also tion exposed disciplinary proceare GM-free. dures as too lengthy and the bureaucratic. last For some of the Commisforsion's younger officials, this the week's report was long overauit due. "Now what we need is the proper meritocratic promoabition, external panels for the appointments, real disciplinadures a heefed up food retailer, has established develop organic foods. itial

Supermarkets in move on modified food

Consumer Industries Editor

European

The initiative has been led establish guaranteed sources of GM-free ingredients.

reluctant to approve new Austin said. GM crops, recently blocking

from life sciences groups. country's largest food chain, natives.

and Delhaize of Belgium. They are joined by Marks to sell manufacturers' and Spencer of the UK, branded foodstuffs which Ireland's Superquinn and

The consortium will find chains which have moved to non-GM growers and ensure GM-free for their own prodthat the crops are segregated ucts. Under European Union from GM produce while law, foods containing GM being transported to proces- ingredients must be labelled sors and in the production as such, but this does not process. It will also establish audit and testing procedures

"We always wanted GM of the consortium. "The and standard crops to be separated," said Alison Austin, Sainsbury's environmental manager. "We were extremely disappointed when this did not happen ing poll evidence that 81 per with the US soya crop.'

and Brazil. But Sainsbury's said yesterday that a consortium was the only way to

establish GM-free sources of both crops and derivatives. Conventional testing of foodstuffs currently detects only protein from GM crops - such as tomatoes, maize or soya meal. The protein is removed in making deriva-

tives such as soya oil and lecithin which cannot therefore be guaranteed GM-free unless controlled from the farm-gate "The consortium will give

Public concern over the us the aggregate buying environmental and health power to make it commerimpact of GM crops has been cially attractive for suppliers growing across the European and guarantee that this will Union. EU member states be an ongoing need among have become increasingly supermarket chains," Ms She added that Sains-

four applications in a row bury's had reduced the number of own-label food prod-Other members of the con- ucts with GM ingredients sortium include Carrefour, from 1,500 to less than 50 France's largest retailer, and will discontinue those if Migros of Switzerland, the it cannot find GM-free alter-

> It will, however, continue contain GM ingredients - as do most of the supermarket

extend to derivatives.

Greenpeace, the environto ensure the foods produced mental campaign organisation, welcomed the creation supermarkets are beginning to listen to what the public wants," it said.

It called on the supermarkets to ban all GM foods, citcent of consumers wanted Iceland, the UK frozen food producers to do more to

19 March, 99

Guardian



top of his \$US 1.7 million action. salary. There was some veiled

John Vidal

NOTHER grand year for | free. In the past fortnight, sci- | may backfire and further | asked his senior c A NOTHER grand year for free. In the past for linght, ser hay backfile and further asked this senter. The senter of the senter o man, Robert Shapiro. This GM soya's links to allergies, in a Plymouth court for "con- sis of the safety of t week, it was reported that his \$10 billion-a-year, Missouri- GM releases has condemned it damage" for pulling up one of dent are we that our l based company, champion of (and other companies) for a their GM herbicide resistant moratorium would the GM food revolution, had "lamentable lack of consider- maize crops and may have to is accurate?" made healthy profits, taken ation" for consumers; and the pay £600,000 to the company in over more seed companies august Institute of Chartered compensation. In April, defen- announced a new and increased earnings for Surveyors has advised that dants from Genetix Snowball regime aimed at enfor shareholders. And, by the by, growing GM crops could Mr Shapiro has cashed in \$18 | threaten land values and put | courts. million of his own shares on farm tenants at risk of legal

The National Farmers' regret that Monsanto had that it would now be "comfailed to merge with the huge | mercial suicide" for farmers | American Home Stores, but to grow the crops if asked. crops, should be forced to no word on its widely reported Meanwhile, British Sugar, talks with chemical giant, which controls all sales of everyone who bought the book red herring and "alre Dupont. Should this happen, sugar beet seed to British from them or was sent a copy. dated" by opposition I it would create a biotechnol- farmers, has said it has no ogy powerhouse, well able to plans to introduce genetically ing and the next month will dominate global agriculture. modified varieties, even if see large British demonstra- a dynamic situation. There was no word, either, on approved. the company's troubles in But the catalogue of corpo- the public destruction of

company, in PR terms at least, Italian, French and Belgian close to meltdown. What Blair supermarket chains have all arrested. and Clinton poll analyst, Stan- started to exclude GM ingrediley Greenberg, reported last ents. In the past fortnight, year as a potential corporate New Zealanders have been crisis is worsening by the day. uprooting crops, the Brazilian In the past few weeks, Asda state environment agency has and Marks & Spencer joined | begun a case against the com-Iceland in banning GM prod- pany, the Ukraine environucts from their own-brand ment minister has declared food lines. Safeway followed his country should not be an suit, with Sainsbury, Waitrose experimental site for GM

and the Co-Op in the past few crops and Indian peasant nologies like genetic engineerdays. That leaves Somerfield | farmers are revolting. and Tesco's. But consumer pressure now embraces many tists this week declared BST, a vants are falling back on the a significant step in t major environment, develop- Monsanto growth hormone line that consumers should be ing in of corporate p ment, consumer and health engineered to increase the able to exercise "choice". as a backward resp groups, and it may be only yield of cow's milk but so far But, judging from the Cabinet inevitable "progress" time before they, too, retreat. banned in Europe, as harmful committee report leaked to poses a new rela The big question is which of to animals with potential the Guardian a few weeks ago, between politicians, of the glant (but mostly anony- human health risks. mous) food processors like Monsanto can do little to control the explosive situation

Uniever, Northern Foods or Nestle, breaks first the global wave of oppo-are mounting. "How real is that Monsanto will end Nestle, breaks first and declares its own products GM.

Yesterday go face the company in the civil regulations, with fin to £5.000. The contro

Monsanto is demanding the trading standards that the small organisation | ties may find unwor which last year published a practice, will force Union of Scotland responded book on how to take open, (the rants, cafes, bakers activists will argue "responsi- catessens to declare ble") direct action against GM | content of their foods The suppliers have hand over to it the names of escaped. It was dismi-It smacks of corporate policcan sense the gover inability to keep up w tions, marches and, inevitably, But even as the En Union is looking to in Europe. Here, Shapiro's troops rate woe goes far beyond more GM trial crops. For the full labelling for GM as are in the bunker, with the Britain. Irish, Swiss, German, first time, MPs have indicated and flavourings, son they may be prepared to be Monsanto and the ot food companies mig With the popular press and intolerable, British r several broadsheets now camhave said they will go paigning against Monsanto's because government

products, what friends has the ances are not enough. What we are witne one of the greatest ONY Blair, who has sevagainst a new techno eral times spoken to Preshistory, dwarfing the dent Clinton about the pean protests agains necessity to support new tech- over Brent Spar and N

company got?

Whether this revol judged by history a ing, is cooling. So far he, Meanwhile leading scien- senior ministers and civil ser- umph of new democr government doubts that it can tions and consumers. Mr Shapiro's cor

Beware of claims that genes drive vous

17 April, 99

Daily Mail



9 June, 99 Financial Times



20 June 99, Guardian



Some reflections

- The Pusztai GM scandal generated numerous front page stores and scandals – it was one of the dominant political and scientific news stories of 99;
- The issue exploded for weeks in the media, and rumbled on for nearly six months;
- It was across the media from the FT to the tabloids;
- A scientific issue had become a political issue;
- A reflection of that is the political cartoons that were generated







and white, that sometim pressure to do what is right wells u t too late to change. A change rate would not ufacturing (boosting imports) but the cre-rell, since they would within and does not need to be imp committees or courts from outside. Accidentally or not, heat of the or otherwise, together Nwankwo K Marc Overmars offended against th Austin ABOUR PART d-fashioned skill beats conmer

Guardian



Observer



November 98,

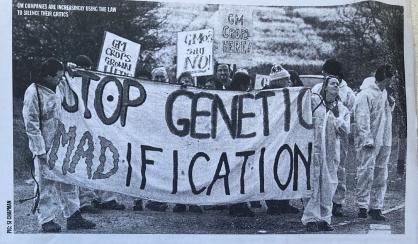
Red Pepper

The issue never went away

onathan steele • linda grant • anthony barnett • ken livingstone yum can't eat won't eat how to feed the world without genetic meddling

Nov, 1999

Big Issue



GM FOOD ON TRIAL

MONSANTO SAYS IT IS NOW COMMITTED TO **OPEN DISCUSSION OF** CAMPAIGNERS TAKING THE ISSUES TO COURT.

ANDREW ROWELL REPORTS

November 22 - 28 1999

be served a life-time injunction, which if

European Human Rights Convention, which

bolic number of plants. One of the protesters, Kathryn Tulip, chose 64 for the number of experimental trials in the country. Another Government are resisting at all o plucked just one plant as it was her first action. sibility of genetic engi

Five women from the anti-GM campaign group GenetiX Snowball were in the Appeal Court this month, defending their right to a trial. The protesters were served with highner-tions by GM giant Monsanto in JulyAugust on the day and the served and released temporary injunctions on them and issued a claim for 'unquantified' damages, 'conspir-tions by GM giant Monsanto in JulyAugust and 'unlawful interference with busitions by GM giant Monsamo in JolyAugusts acy and commercial interests". These dam-pany's crops. In April, the High Court ruled that the women had the right to have the dam in pounds, but Monsando dropped the claim in defence heard and ordered a full civil court trial. April at a summary hearing, arguing for a Monsanto are appealing against that decision. permanent injunction against the defen-The ruling by three appeal judges is dants, in order to avoid a trial. It also argued expected any day and will have serious reper- that anyone who had received a GenetiX expected any day and with rate serious depit-cussions for the British legal system. If it Snowball handbook should be covered by the goes in Monsanto's favour, the activists could injunction, but this was rejected by the judge. The legal action by Monsanto is a broken would result in imprisonment with-out trial. "This would be in breach of the Participation) – a deliberate use of the law by companies and governments to silence guarantees a fair hearing or trial," says Daniel Bennett of Leigh & Day solicitors, to silence protesters," says Tulip, SLAPPs are who represented three of the defendants. not necessarily designed to go to court, but to The case started in July last year, when intimidate protesters into inaction. "They The case started in July las year, when the five women openly and peacefully dug up Monsanto's genetically modified test crops at a site in Oxfordshire. Each pulled up a sym-serial out politically," says Professor George Pring of the University of Colorado in Description of the University of Colorado in

Denver, who initially coined the phrase. Currently, both biotech compar

Nov, 1999

Guardian

News	Opinion	Sport	Culture	Lifestyle	More~
Environment Climate crisis Wildlife Energy Pollution					
Food	Pro-GM food scientist 'threatened editor'				Advertisement
	Top pro-GM food scientist threatened me, says editor				
	GM food: special report				
Laurie Flynn and Michael Sean Gillard Mon 1 Nov 1999 02.51 GMT	was threatened British science e	by a senior mem establishment, th	ling medical journals, ber of the Royal Societ at his job would be at r ng the safety of genetic	y, the voice of the isk if he published	

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24-30 July, 2000

The Big Issue



8 Oct 2000, Independent on Sunday



April 2002,

Big Issue

SEEDS OF DISSEN

Anti-GM scientists are facing widespread assualts on their credibility. Andy Rowell investigates who is behind the attacks

the row

nti-GM scientists and activists are increasingly having their credibility attacked A lingly having their creation of the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another the second moratoria on genetically modified ecular Genetics at Tuskegee University, the descent to another to another the descent to another to biotech industry. Now that campaign has seen a prestigious scientific journal become the latest casualty.

The attacks against the journal Nature culminated in the publication last week of an admission that it was wrong to print a scientific paper last year that was critical of GM. The admission was the first in the journal's history. It is apparently the latest example of biotech giants using better time and the biotech industry is naturally front organisations and websites to discredit scientific research that criticises GM technology. The saga started last November when Nature

16 News Featu

versity of California Berkeley that alleged contamination of native Mexican maize by GM. As Mexico has a moratorium on commercial GM planting, it raised crucial issues about genetic pollution in a centre of maize biodiversity. The paper led to the researchers and Nature

biotech industry. Nature finally buckled under the pressure, issuing a statement saying "the evidence available is not sufficient to justify the that be" publication of the original paper". "It is clearly a topic of hot interest", says Jo

not just "technical" but also "political".

The political context is that the biotech The central co-ordinator of the attacks has industry is trying to lift European, Brazilian and been CS Prakash who is a professor of Plant Molseeds or foods. It is desperate to open up Alabama, and who runs the AgBioWorld Founda-Europe, having lost more than \$200 million due tion. AgBioWorld was co-founded by an to the moratorium on growing of GM corn alone. employee of the Washington-based right-wing Nature has refused to comment further about think tank Competitive Enterprise Institute.

This week sees crucial negotiations at the UN "flawed" and says the "results did not justify the Convention on Biological Diversity in The Hague. conclusions." He adds that they were "too eager The Nature statement could not have come at a to publish their results because it fitted their agenda' gleeful. "Many people are going to need that

Greef from Syngenta, the world's leading said: "I think it a played a fairly important role in The saga started last revenues in the Uni-published an article by scientists from the Uni-agribusiness company, "not least those who, like putting public pressure on Nature because we me, will be in the frontline fights for biotech during the Hague negotiations". Despite Nature's climb-down, the authors of paper was published many scientists started

Chapela, have published new evidence they say doin vindicates their original findings. They add that Ine paper red to the research and the two other studies by the Mexican government being attacked by pro-GM scientists and the confirm their research and believe the mexican government been "under incredible pressure from the powers

"This is a very, very well concerted, co-ordinated and paid for campaign to discredit the very publication were also "It is clearly a topic of hot interest", says Jo "It is clearly a topic of hot interest", says Jo webber from Nature, admitting that this story is Webber from Nature's original publication were also Drinted to the sate of the sate

Prakash calls the Quist and Chapela study

Prakash's pro-GM website has been the cen-(Nature's editorial) reference", says Willy De tral discussion forum of the Nature article. He have close to 3,700 people on AgBioView, our daily newsletter, and immediately after this the original study, David Quist and Ignacio posting some preliminary analysis that they were

> AgBioView has brought together those scientists and AgBioWorld provided a collective voice for the scientific community". These discussions led to a highly critical and influential statement attacking Nature that received more than 80 signatories.

tion. The lead authors of the letters. Matthew are a great way to anonymously Metz and Nick Kaplinsky, signed the pro-biotech statement on the website

U IGALUI CIGNO

Both have or have had links with the Depart- these outlets that present your position as an ment of Plant and Microbial Biology at Berkeley uninvolved third party." that entered into a \$25 million deal with Novartis (now Syngenta), a deal that was opposed by Chapela. "It became a very big scandal and they called CFFAR.org as well as via articles and to connect him to a Bivings database had failed. cannot forgive that", says Chapela.

a PR company that works for GM firm Monsanto covert campaign. that started and fuelled the anti-Nature debate on Prakash's listery. On the listsery the first attack was posted by someone called 'Mary Murthat she was the original source of a letter that phy' within hours of publication. She wrote: "It was published under the name of Tony Trevawas, should be noted that the author of the Nature a pro-GM scientist from the University of Edinarticle, Ignacio H Chapela, is on the board of burgh, in the Herald newspaper in Scotland. The directors of the Pesticide Action Network North letter became a source of legal action between panies" America, an activist group." Murphy accused Greenpeace, its former director Peter Melchett, Chapela of being "not exactly what you'd call an and the newspaper. The case went to the high santo has a series of shop windows with which to court and ended with Melchett receiving undisunbiased writer

The next bulletin was from someone called closed damages and an apology from the Herald. 'Andura Smetacek' who claimed Chapela was in Trevawas has always denied he wrote the letter. In a letter written earlier this year, Smetacek league with environmental groups and added, wrongly, that his paper was "not a peer-reviewed said: "I am the author of the message which was research article subject to independent scien- sent to AgBioWorld. I'm surprised at the stir it has caused since the basis for the content of the tific analysis". Smetacek and Murphy have between them posted around 60 articles on the letter comes from publicly available news articles and research easily found on-line" Prakash list So who are they?

Mary Murphy's email is mmrph@hotmail

.com, which hides her employer. On one occasion on an internet message board she used this address but also left a trail of other identifying details that showed she worked for the Bivings group, a PR company with offices in Washington. Brussels, Chicago and Tokyo. Bivings, which has more than a dozen Monsanto companies as clients, has been assisting the GM firm's use of the internet since realising that it played a significant part in the company's

Van de oper på land

The Bivings website

However further insight can

be glearned from a recent report by Bivings which said: "Message

boards, chat rooms and listservs

semination"

for campaign to discredit the very simple statement poor PR image. Bivings says it uses the internet's 'powerful message delivery tools" for "viral dis-When asked about what they do for Mon-

HE BYINGS GROUP

santo, a spokesperson for Bivings said "We run their web sites for various European countrie and their main corporate site and we help them posting to the AgBioView list she gave her address with campaigns as a consultant. We are not as London, while in recent correspondence with allowed to discuss strategy issues and personal The Ecologist magazine Smetacek left a New opinions". They declined to give any further York phone number. However, after extensive searching of public records in the US, the Big information on their work for the company. sue South West found no one in America with that name. Despite numerous requests by The Ecologist for Smetacek to give an employer or

land address she has refused to do so. A clue to her identity is that Smetacek's earliest messages to AgBioView consistently promoted the CFFAR.org website. CFFAR stands for the Centre For Food and Agricul-

"This is a very, very

well concerted, co-

ordinated and paid

tural Research and describes itself as "a public policy and research coalition dedicated to exploring and understanding health, safety, and sustainability issues associated with food and fiber produc-

News Feature 17

we made"

In fact the website attacks organic agriculture as well as environmental groups, like Green peace, calling them "terrorists". The website is registered to an employee of Bivings who works as one of Monsanto's web gurus.

monitor what is being said. Once you are plugged Even the AgBioWorld Foundation website is into this world, it is possible to make postings to linked to Bivings Jonathan Matthews, a leading anti-GM

activist, has researched the activities of Bivings. As a "third party" Bivings has covertly While searching the AgBioWorld archives he smeared biotech industry critics on a website received a message that told him that an attempt attacks on listservs under aliases. The attack on Internet experts believe that this message But most importantly it wasn't scientists but the Nature article was a continuation of this implies Bivings is hosting an AgBioView data base. These experts also notice technical simi-Andura Smetacek is no stranger to such tac- larities between the CFFAR, Bivings and tics. The Big Issue South West can also reveal AgBioWorld websites.

Prakash, though, denies receiving funding or assistance for the AgBioWorld foundation and denies working with any PR company saying he is "pro-the technology not necessarily the com-

However Matthews said: "Via Bivings, Moninfluence the GM debate. One of these is AgBioWorld. The chief mannequin seems to be Prakash who has been very influential in the whole Nature/GM corn contamination fiasco. But I wonder if Nature really knows who i behind the attacks."

Dr Sue Mayer from GeneWatch UK says: "It is quite extraordinary the lengths the biotech industry and the scientific establishment will go Smetacek is also a "front email". In an early to discredit any critical science."

APRIL 15 - 21 2002 THE BIG IS

2003, Don't Worry!

It's Safe to Eat

DON'TWORRY [IT'S SAFE TO EAT]

ed to be worfled » absolute realth risk » potential for ergens » serious environment it » cannot be transmitted to ins » another BSE crisis » inissable disease » perfect of contamination » the is stacking up » the wironment »



THE TRUE STORY OF GM FOOD, BSE AND FOOT AND MOUTH

The sinister sacking of the world's leading GM expert and the trail that leads to Tony Blair and the White

House

Published: 07 July 2003

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by Andrew Rowell The Daily Mail, July 7 2003 The following day he was fired. He says he was informed of the calls by two different employees at the Rowett. Dr Putsztai and his wife were also told by a senior manager at the institute that Blair's intervention followed a phone call to Downing Street from President Bill Clinton, whose administration was spending billions backing the GM food industry. To sceptical ears, this sounds scarcely credible. Would the Prime Minister really have had any influence over the position of a respected scientist?

And yet the story is supported by two other eminent researchers. Stanley Ewen, says another senior figure at the institute told him the same story at a dinner on September 24, 1999.

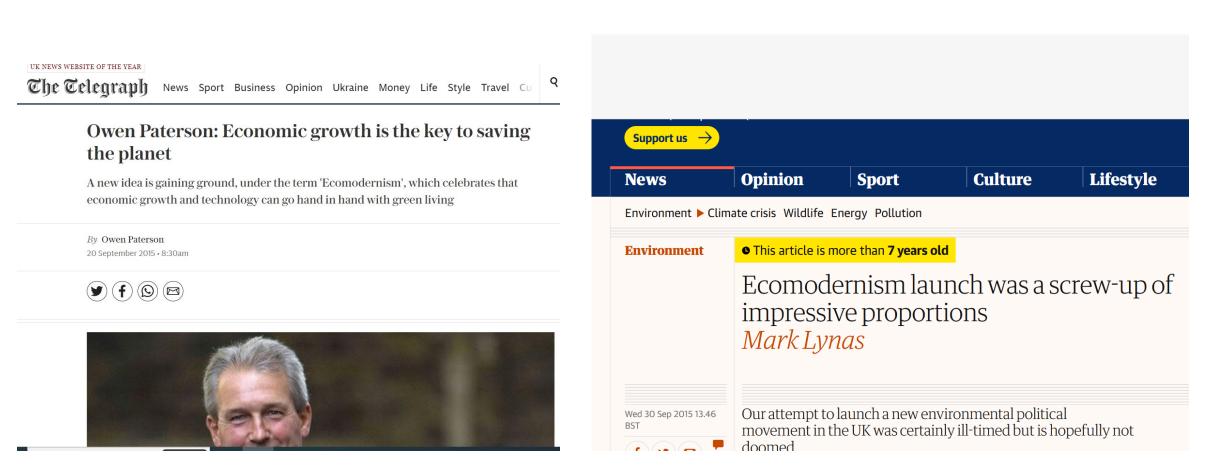
'That conversation is sealed in my mind,' Ewen says. 'My jaw dropped to the floor. I suddenly saw it all - it was the missing link.

'Until then, I couldn't understand how on Monday Arpad had made the most wonderful breakthrough, and on Tuesday it was the most dreadful piece of work and immediately rejected out of hand.'

The second source to confirm the story is Professor Robert Orskov OBE, who worked at the Rowett for 33 years and is one of Britain's leading nutrition experts. He was told that phone calls went from Monsanto, the American firm which produces 90% of the world's GM food, to Clinton and then to Blair.

'Clinton rang Blair and Blair rang James,' says Professor Orskov.

2015: Fast forward a decade.. New Pro-GMO group formed with Mark Lynas and Owen Paterson and Matt Ridley



2019 -Boris Johnson speech

So I can imagine in the future of this wonderful museum there will exhibits recording not only the breakthroughs in bioscience, here in Manchester and elsewhere that allow the UK to lead the world in producing genetically modified crops - blight-resistance potatoes will feed the world.



May 2022 – European Commission launches new consultation on GMOs

Mute Schimpf, food and farming campaigner at Friends of the Earth Europe said:

"The debate on the deregulation of new GMO is a flagrant attempt to divert time, money and attention away from truly sustainable and already-proven solutions like agroecology.

We don't have time to waste with empty and dangerous promises that would only have us more dependent on dirty fossil fuels.

Our message to the Commission is clear: stop pushing for the deregulation of new GMOs and keep them strictly labelled and safety checked

Oct 2022 – Birth of pro-GMO RePlanet with Mark Lynas



DONATE

:

RePlanet · Oct 3, 2022 · 10 min read

What defending science means when you're an environmentalist

Updated: Oct 11, 2022

Mark Lynas, one of the driving forces behind RePlanet, kicked off our conference in Warsaw, Poland, A New Hope: The RePlanet Sessions 2022, by explaining how science has guided his beliefs about how to save nature. Here's the transcript of his talk:

November 2022 – George Monbiot teams up with RePlanet to "Reboot food"



George Monbiot teams up with Mark Lynas and the ecomodernists to Reboot Food. New campaign allies strange bedfellows in support of anti-organic, pro-#GMO and pro-synthetic food campaign gmwatch.org /en/106-news/la...





nimum order value £725. Offer only open at time of be used in conjunction with any other offer. Different s apply to conservatories and garage doors. rest House, FREEPOST, Cuffley, Herts EN6 4YA



NON-GM SUCCESSES

News and comment on genetically modified foods and their associated pesticides Feb 2023 f a 1 News **>** Botched genetic technology bill will upend English agriculture Articles **•** Published: 07 February 2023 Donations 🈏 Tweet in Share 🚯 Share 🌔 Peers' concerns echoed those of three government agencies - but the bill will likely pass into law Videos < unamondod What happens next?

According to Science Minister George Freeman, the UK will soon become "a global testbed" for agritech, gene-edited crops and synthetic biology, among other technologies.

March 23 Genetic Technology – Precision Breeding act



Parliamentary Bills

<u>UK Parliament</u> > <u>Business</u> > <u>Legislation</u> > <u>Parliamentary Bills</u> > Genetic Technology (Precision Breeding) Act 2023

Bill feed

Genetic Technology (Precision Breeding) Act 2023

Government Bill

Originated in the House of Commons, Session 2022-23

Last updated: 27 March 2023 at 17:17



<u>See full passage</u>



Genetic Technology Act

The Westminster Government's Genetic Technology Bill became law on 23 March 2023, setting up mechanisms that will impose untested – and unlabelled – GMOs on the entire UK food chain. The Genetic Technology (Precision Breeding) Act only applies directly to England but that won't stop it having an impact in Scotland, Wales and Northern Ireland.

Guardian April 2023

Fighting giants: eco-activist Vandana Shiva on her battle against GM multinationals



Shiva is scathing of this <u>renewed push for GM</u> organisms, arguing that much of the gene-editing process is still <u>"dangerously unpredictable"</u> and calling it "ignorance" to think climate-adapted crops can only come from industrial labs.

May 2023: Brussels:



ひ Dr. Vandana Shiva Retweeted

CEO @corporateeurope · May 22

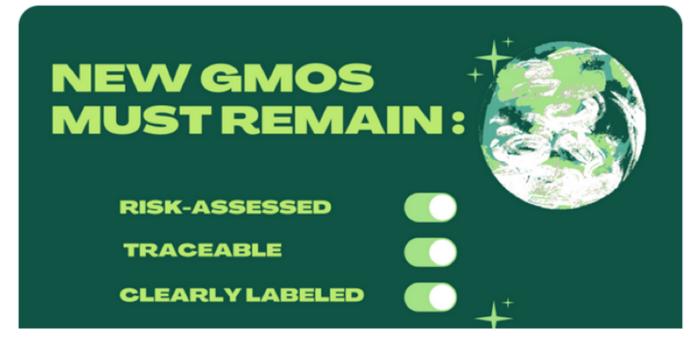
Today @TimmermansEU is in @Europarl_EN to discuss #NewGMOs. They must remain:

...

risk-assessed for human health & the environment

- 🖊 traceable
- Clearly labeled

✓ 340 organizations signed a joint ⋈ to protect our right to choose what we produce & eat: corporateeurope.org/en/2023/05/tim...



Closing thoughts

- 25 years ago, the world was extremely worried about GMOs, but now
- In the UK, no media interest;
- Very little public scientific debate;
- Little public awareness;
- Even some originally opposed are now for it;
- The industry, like oil and nukes, plays a long game relies on public inertia or ignorance;
- But much remains unknown of dangers and safety:
- And the corporate control of key technologies;
- In the words of Arpad: "I find that it's very, very unfair to use our fellow citizens as guinea pigs."
- Lets not be those guinea pigs...