

Open Letter from World Scientists to All Governments Concerning Genetically Modified Organisms (GMO)

Posted by Joan Russow

Saturday, 09 February 2013 21:44 -

- BY institute of Science and Society
- The scientists are extremely concerned about the hazards of GMOs to biodiversity, food safety, human and animal health, and demand a moratorium on environmental releases in accordance with the precautionary principle.
- They are opposed to GM crops that will intensify corporate monopoly, exacerbate inequality and prevent the essential shift to sustainable agriculture that can provide food security and health around the world.
- They call for a ban on patents of life-forms and living processes which threaten food security, sanction biopiracy of indigenous knowledge and genetic resources and violate basic human rights and dignity.
- They want more support on research and development of non-corporate, sustainable agriculture that can benefit family farmers all over the world.

Previous versions of this letter were submitted to many governments and international forums including:

- **World Trade Organization** Conference in Seattle (November 30 – Dec. 2, 1999)
- **UN Biosafety Protocol Meeting** in Montreal (24 – 28, Jan. 2000)
- **UN Commission on Sustainable Development** Conference on Sustainable Agriculture in New York (April 24-May 5, 2000)

- **UN Convention on Biological Diversity** Conference in Nairobi (May 16-24, 2000)
- **United States Congress** (29 June, 2000)

Signed by 828 scientists from 84 different countries, including:

Dr. David Bellamy, Biologist and Broadcaster, London, UK
Prof. Liebe Cavalieri, Mathematical Ecologist, Univ. Minnesota, USA
Dr. Thomas S. Cox, Geneticist, US Dept. of Agriculture (retired), India
Dr. Tewolde Egziabher, Spokesperson for African Region, Ethiopia
Dr. David Ehrenfeld, Biologist/Ecologist, Rutgers University, USA
Dr. Vladimir Zajac, Oncovirologist, Genetisist, Cancer Reseach Inst, Czech Republic
Dr. Brian Hursey, ex FAO Senior Officer for Vector Borne Diseases, UK
Prof. Ruth Hubbard, Geneticist, Harvard University, USA

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Prof. Jonathan King, Molecular Biologist, MIT, Cambridge, USA

Prof. Gilles-Eric Seralini, Laboratoire de Biochimie & Moléculaire, Univ. Caen, France

Dr. David Suzuki, Geneticist, David Suzuki Foundation, Univ. British Columbia, Canada

Dr. Vandana Shiva, Theoretical Physicist and Ecologist, India

Dr. George Woodwell, Director, Woods Hole Research Center, USA

Prof. Oscar B. Zamora, Agronomist, U. Philippines, Los Banos, Philippines

[add your name to the list!](#)

1.9.2000

Open Letter from World Scientists to All Governments Summary

We, the undersigned scientists, call for the immediate suspension of all environmental releases of GM crops and products, both commercially and in open field trials, for at least 5 years; for patents on living processes, organisms, seeds, cell lines and genes to be revoked and banned; and for a comprehensive public enquiry into the future of agriculture and food security for all.

Patents on life-forms and living processes should be banned because they threaten food security, sanction biopiracy of indigenous knowledge and genetic resources, violate basic human rights and dignity, compromise healthcare, impede medical and scientific research and are against the welfare of animals.

GM crops offer no benefits to farmers or consumers. Instead, many problems have been identified, including yield drag, increased herbicide use, erratic performance, and poor economic returns to farmers. GM crops also intensify corporate monopoly on food, which is driving family farmers to destitution, and preventing the essential shift to sustainable agriculture that can guarantee food security and health around the world

The hazards of GMOs to biodiversity and human and animal health are now acknowledged by sources within the UK and US Governments. Particularly serious consequences are associated with the potential for horizontal gene transfer. These include the spread of antibiotic resistance marker genes that would render infectious diseases untreatable, the generation of new viruses

and bacteria that cause diseases, and harmful mutations which may lead to cancer.

In the Cartagena Biosafety Protocol negotiated in Montreal in January 2000, more than 130 governments have pledged to implement the precautionary principle and to ensure that biosafety legislations at the national and international levels take precedence over trade and financial agreements at the World Trade Organization.

Successive studies have documented the productivity and the social and environmental benefits of sustainable, low-input and organic farming in both North and South. They offer the only practical way of restoring agricultural land degraded by conventional agronomic practices, and empower small family farmers to combat poverty and hunger.

We urge the US Congress to reject GM crops as both hazardous and contrary to the interest of family farmers; and to support research and development of sustainable agricultural methods that can truly benefit family farmers all over the world.

We, the undersigned scientists, call for the immediate suspension of all environmental releases of GM crops and products, both commercially and in open field trials, for at least 5 years; for patents on living processes, organisms, seeds, cell lines and genes to be revoked and banned; and for a comprehensive public enquiry into the future of agriculture and food security for all.

1 Patents on life-forms and living processes should be banned because they threaten food security, sanction biopiracy of indigenous knowledge and genetic resources, violate basic human rights and dignity, compromise healthcare, impede medical and scientific research and are against the welfare of animals(1). Life-forms such as organisms, seeds, cell lines and genes are discoveries and hence not patentable. Current GM techniques which exploit living processes are unreliable, uncontrollable and unpredictable, and do not qualify as inventions. Furthermore, those techniques are inherently unsafe, as are many GM organisms and products.

2. It is becoming increasingly clear that current GM crops are neither needed nor beneficial. They are a dangerous diversion preventing the essential shift to sustainable agricultural practices that can provide food security and health around the world.

3. Two simple characteristics account for the nearly 40 million hectares of GM crops planted in 1999(2). The majority (71%) are tolerant to broad-spectrum herbicides, with companies engineering plants to be tolerant to their own brand of herbicide, while most of the rest are engineered with bt-toxins to kill insect pests. A university-based survey of 8200 field trials of the most widely grown GM crops, herbicide-tolerant soya beans - revealed that they yield 6.7% less and required two to five times more herbicides than non-GM varieties(3). This has been confirmed by a more recent study in the University of Nebraska(4). Yet other problems have been identified: erratic performance, disease susceptibility(5), fruit abortion(6) and poor economic returns to farmers(7).

4. According to the UN food programme, there is enough food to feed the world one and a half times over. While world population has grown 90% in the past 40 years, the amount of food per capita has increased by 25%, yet one billion are hungry(8). A new FAO report confirms that there will be enough or more than enough food to meet global demands without taking into account any yield improvements that might result from GM crops well into 2030 (9). It is on account of increasing corporate monopoly operating under the globalised economy that the poor are getting poorer and hungrier(10). Family farmers around the world have been driven to destitution and suicide, and for the same reasons. Between 1993 and 1997 the number of mid-sized farms in the US dropped by 74,440(11), and farmers are now receiving below the average cost of production for their produce(12). The farming population in France and Germany fell by 50% since 1978(13). In the UK, 20 000 farming jobs were lost in the past year alone, and the Prime Minister has announced a £200m aid package(14). Four corporations control 85% of the world trade in cereals at the end of 1999(15). Mergers and acquisitions are continuing.

5. The new patents on seeds intensify corporate monopoly by preventing farmers from saving and replanting seeds, which is what most farmers still do in the Third World. In order to protect their patents, corporations are continuing to develop terminator technologies that genetic engineer harvested seeds not to germinate, despite worldwide opposition from farmers and civil society at large(16).

6. Christian Aid, a major charity working with the Third World, concluded that GM crops will cause unemployment, exacerbate Third World debt, threaten sustainable farming systems and damage the environment. It predicts famine for the poorest countries(17). African Governments condemned Monsanto's claim that GMOs are needed to feed the hungry of the world: "We..strongly object that the image of the poor and hungry from our countries is being used by giant multinational corporations to push a technology that is neither safe, environmentally friendly, nor economically beneficial to us... we believe it will destroy the diversity, the local

knowledge and the sustainable agricultural systems that our farmers have developed for millennia and ...undermine our capacity to feed ourselves.(18)" A message from the Peasant movement of the Philippines to the Organization for Economic Cooperation and Development (OECD) of the industrialized countries stated, "The entry of GMOs will certainly intensify landlessness, hunger and injustice.(19)"

7. A coalition of family farming groups in the US have issued a comprehensive list of demands, including ban on ownership of all life-forms; suspension of sales, environmental releases and further approvals of all GM crops and products pending an independent, comprehensive assessment of the social, environmental, health and economic impacts; and for corporations to be made liable for all damages arising from GM crops and products to livestock, human beings and the environment(20). They also demand a moratorium on all corporate mergers and acquisitions, on farm closures, and an end to policies that serve big agribusiness interests at the expense of family farmers, taxpayers and the environment(21). They have mounted a lawsuit against Monsanto and nine other corporations for monopolistic practices and for foisting GM crops on farmers without adequate safety and environmental impact assessments(22).

8. Some of the hazards of GM crops are openly acknowledged by the UK and US Governments. UK Ministry of Agriculture, Fisheries and Food (MAFF) has admitted that the transfer of GM crops and pollen beyond the planted fields is unavoidable(23), and this has already resulted in herbicide-tolerant weeds(24). An interim report on UK Government-sponsored field trials confirmed hybridisation between adjacent plots of different herbicide tolerant GM oilseed rape varieties, which gave rise to hybrids tolerant to multiple herbicides. In addition, GM oilseed rape and their hybrids were found as volunteers in subsequent wheat and barley crops, which had to be controlled by standard herbicides(25). Bt-resistant insect pests have evolved in response to the continuous presence of the toxins in GM plants throughout the growing season, and the US Environment Protection Agency is recommending farmers to plant up to 40% non-GM crops in order to create refugia for non-resistant insect pests(26).

9. The threats to biodiversity from major GM crops already commercialized are becoming increasingly clear. The broad-spectrum herbicides used with herbicide-tolerant GM crops decimate wild plant species indiscriminately, they are also toxic to animals. Glufosinate causes birth defects in mammals(27), and glyphosate is linked to non-Hodgkin lymphoma(28). GM crops with bt-toxins kill beneficial insects such as bees(29) and lacewings(30), and pollen from bt-corn is found to be lethal to monarch butterflies(31) as well as swallowtails(32). Bt-toxin is exuded from roots of bt-plants in the rhizosphere, where it rapidly binds to soil particles and become protected from degradation. As the toxin is present in an activated, non-selective form, both target and non-target species in the soil will be affected(33), with knock on effects on

species above ground.

10. Products resulting from genetically modified organisms can also be hazardous. For example, a batch of tryptophan produced by GM microorganisms was associated with at least 37 deaths and 1500 serious illnesses(34). Genetically modified Bovine Growth Hormone, injected into cows in order to increase milk yield, not only causes excessive suffering and illnesses for the cows but increases IGF-1 in the milk, which is linked to breast and prostate cancers in humans(35). It is vital for the public to be protected from all GM products, and not only those containing transgenic DNA or protein. That is because the process of genetic modification itself, at least in the form currently practised, is inherently unsafe.

11. Secret memoranda of US Food and Drug Administration revealed that it ignored the warnings of its own scientists that genetic engineering is a new departure and introduces new risks. Furthermore, the first GM crop to be commercialized - the Flavr Savr tomato - did not pass the required toxicological tests(36). Since then, no comprehensive scientific safety testing had been done until Dr. Arpad Pusztai and his collaborators in the UK raised serious concerns over the safety of the GM potatoes they were testing. They conclude that a significant part of the toxic effect may be due to the "[gene] construct or the genetic transformation (or both)" used in making the GM plants(37).

12. The safety of GM foods was openly disputed by Professor Bevan Moseley, molecular geneticist and current Chair of the Working Group on Novel Foods in the European Union's Scientific Committee on Food(38). He drew attention to unforeseen effects inherent to the technology, emphasizing that the next generation of GM foods - the so-called 'neutraceuticals' or 'functional foods', such as vitamin A 'enriched' rice - will pose even greater health risks because of the increased complexity of the gene constructs.

13. Genetic engineering introduces new genes and new combinations of genetic material constructed in the laboratory into crops, livestock and microorganisms(39). The artificial constructs are derived from the genetic material of pathogenic viruses and other genetic parasites, as well as bacteria and other organisms, and include genes coding for antibiotic resistance. The constructs are designed to break down species barriers and to overcome mechanisms that prevent foreign genetic material from inserting into genomes. Most of them have never existed in nature in the course of billions of years of evolution.

14. These constructs are introduced into cells by invasive methods that lead to random

insertion of the foreign genes into the genomes (the totality of all the genetic material of a cell or organism). This gives rise to unpredictable, random effects, including gross abnormalities in animals and unexpected toxins and allergens in food crops.

15. One construct common to practically all GM crops already commercialized or undergoing field trials involves a gene-switch (promoter) from the cauliflower mosaic virus (CaMV) spliced next to the foreign gene (transgene) to make it over-express continuously(40). This CaMV promoter is active in all plants, in yeast, algae and E. coli. We recently discovered that it is even active in amphibian egg(41) and human cell extract(42). It has a modular structure, and is interchangeable, in part, or in whole with promoters of other viruses to give infectious viruses. It also has a 'recombination hotspot' where it is prone to break and join up with other genetic material(43).

16. For these and other reasons, transgenic DNA - the totality of artificial constructs transferred into the GMO - may be more unstable and prone to transfer again to unrelated species; potentially to all species interacting with the GMO(44).

17. The instability of transgenic DNA in GM plants is well-known(45). GM genes are often silenced, but loss of part or all of the transgenic DNA also occurs, even during later generations of propagation(46). We are aware of no published evidence for the long term stability of GM inserts in terms of structure or location in the plant genome in any of the GM lines already commercialized or undergoing field trials.

18. The potential hazards of horizontal transfer of GM genes include the spread of antibiotic resistance genes to pathogens, the generation of new viruses and bacteria that cause disease and mutations due to the random insertion of foreign DNA, some of which may lead to cancer in mammalian cells(47). The ability of the CaMV promoter to function in all species including human beings is particularly relevant to the potential hazards of horizontal gene transfer.

19. The possibility for naked or free DNA to be taken up by mammalian cells is explicitly mentioned in the US Food and Drug Administration (FDA) draft guidance to industry on antibiotic resistance marker genes(48). In commenting on the FDA's document, the UK MAFF pointed out that transgenic DNA may be transferred not just by ingestion, but by contact with plant dust and air-borne pollen during farm work and food processing(49). This warning is all the more significant with the recent report from Jena University in Germany that field experiments indicated GM genes may have transferred via GM pollen to the bacteria and yeasts in the gut of

bee larvae(50).

20. Plant DNA is not readily degraded during most commercial food processing(51). Procedures such as grinding and milling left grain DNA largely intact, as did heat-treatment at 90deg.C. Plants placed in silage showed little degradation of DNA, and a special UK MAFF report advises against using GM plants or plant waste in animal feed.

21. The human mouth contains bacteria that have been shown to take up and express naked DNA containing antibiotic resistance genes, and similar transformable bacteria are present in the respiratory tracts(52).

22. Antibiotic resistance marker genes from GM plants have been found to transfer horizontally to soil bacteria and fungi in the laboratory(53). Field monitoring revealed that GM sugar beet DNA persisted in the soil for up to two years after the GM crop was planted. And there is evidence suggesting that parts of the transgenic DNA have transferred horizontally to bacteria in the soil(54).

23. Recent research in gene therapy and nucleic acid (both DNA and RNA) vaccines leaves little doubt that naked/free nucleic acids can be taken up, and in some cases, incorporated into the genome of all mammalian cells including those of human beings. Adverse effects already observed include acute toxic shock, delayed immunological reactions and autoimmune reactions(55).

24. The British Medical Association, in their interim report (published May, 1999), called for an indefinite moratorium on the releases of GMOs pending further research on new allergies, the spread of antibiotic resistance genes and the effects of transgenic DNA.

25. In the Cartagena Biosafety Protocol successfully negotiated in Montreal in January, 2000, more than 130 governments have agreed to implement the precautionary principle, and to ensure that biosafety legislations at the national and international levels take precedence over trade and financial agreements at the WTO. Similarly, delegates to the Codex Alimentarius Commission Conference in Chiba Japan, March 2000, have agreed to prepare stringent regulatory procedures for GM foods that include pre-market evaluation, long-term monitoring for health impacts, tests for genetic stability, toxins, allergens and other unintended effects(56). The

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Cartegena Biosafety Protocol has now been signed by 68 Governments in Nairobi in May, 2000.

26. We urge all Governments to take proper account of the now substantial scientific evidence of actual and suspected hazards arising from GM technology and many of its products, and to impose an immediate moratorium on further environmental releases, including open field trials, in accordance with the precautionary principle as well as sound science.

27. Successive studies have documented the productivity and sustainability of family farming in the Third World as well as in the North(57). Evidence from both North and South indicates that small farms are more productive, more efficient and contribute more to economic development than large farms. Small farmers also tend to make better stewards of natural resources, conserving biodiversity and safeguarding the sustainability of agricultural production(58). Cuba responded to the economic crisis precipitated by the break up of the Soviet Bloc in 1989 by converting from conventional large scale, high input monoculture to small organic and semi-organic farming, thereby doubling food production with half the previous input(59).

28. Agroecological approaches hold great promise for sustainable agriculture in developing countries, in combining local farming knowledge and techniques adjusted to local conditions with contemporary western scientific knowledge(60). The yields have doubled and tripled and are still increasing. An estimated 12.5 million hectares worldwide are already successfully farmed in this way(61). It is environmentally sound and affordable for small farmers. It recovers farming land marginalized by conventional intensive agriculture. It offers the only practical way of restoring agricultural land degraded by conventional agronomic practices. Most of all, it empowers small family farmers to combat poverty and hunger.

29. We urge all Governments to reject GM crops on grounds that they are both hazardous and contrary to ecologically sustainable use of resources. Instead they should support research and development of sustainable agricultural methods that can truly benefit family farmers the world over.

[[sort by surname](#)] [[sort by country](#)]

signed by

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- 59 **Dr Farhad Mazhar** Ecologist New Agricultural Movement Bangladesh
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- 63 **Verstraeten Guy B.Eng** have an engineering education in biochemistry education I have ethical objections to do work in most of the current industries and research Belgium
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- 85 **John A Brown** watchdog on growing power of corporacy in our world and the world s governments lack of will stop it Education Canada
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- 88 **Yoon C. Chen B.Sc.** DPM Podiatrist Foot Clinic Lethbridge Alberta Canada
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121 **Lise Norgren** Concerned Consumer Canada

122 **Prof. Ann Oaks** Botany (retired) Univ. Guelph Canada

123 **Steve Robak** Canadian Department of National Defence Canada

124 **Leslirae Rotor** Economist consultant Ottawa Canada

125 **Dr. Bassam Ismaeil Sam Ph.D** Information Systems Ismaeil Consulting Canada

126 **Vere Scott** ecologist Canada

127 **Dr. John Scull** Psychologist University of Victoria Victoria Canada

128 **Dr. Carolyn A. Simmerman** ND.DC Docotr. Whole Health Centre Edmonton Canada

129 **Prof. David Suzuki** David Suzuki Foundation Geneticist U.B.C. Canada

130 **Prof. Stephen Talmage** Philospher (retired) Carleton University Ottawa Canada

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132 **Mark Thompson Ph.D student** Molecular Evolutionary Genetics The University of Calgary Canada

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135 **Dr. Pierre Turcotte Ph.D** Plant breeder Canada

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137 **Dr. Susan Walsh Ph.D** Phd cultural anthropology Executive Director of NGO focussed on food security in the South USC Canada Canada

138 **Roland Wilhelm B.Sc** One who choses to think and take on problems that effect the environment Guelph Canada

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- 142 **Werner Zimmermann** interested informed and concerned citizen Canada
- 143 **Tea Garcia-Huidobro M.Sc** Biochemistry (B.Sc) and Environmental Technology (M.Sc) Chile
- 144 **Diana Medel** Studies on Anthropol Soc Soc Psy Member Anthroposophic Society Volunteer for Children sRights Garden s Constr Inv Med Plants Food Environm Stud ONG to supervise Children s Rights Chile
- 145 **JUAN DU B.Eng** civil Engineering Warwick U K China
- 146 **Dr. Ye Hua** over 20 000 pieces hand painted oil painting and picture frames in stock for sale at lowest prices <http://www.art98.com> China
- 147 **Dr. Alexander Jablanczy** General Practitioner Doctor's Building Saulte Ste. Marie China
- 148 **Dr. Jesse LiLing M.D** Bioinformation Tsinghua University China
- 149 **William Bingbin Lui Ph.D student** I strongly support such an effort I think both National and International legal regimes should accept this open letter Law School Fudan University Shanghai China
- 150 **Elias Gomez Ph. D. student** Dept. of Geology University of Cornell Colombia
- 151 **Dr. Jaime E García González Ph.D** Pesticides Organic Agriculture Universidad Estatal a Distancia UNED Costa Rica
- 152 **Damjan Bogdanovic Ph. D. student** Un Zagreb Croatia
- 153 **Prof. Marijan Jost** Plant Geneticist Agricultural College Krizevci Croatia
- 154 **Damir Magdic** Food Scientist Osijek Un Croatia
- 155 **Dr. Zora Matrovic MD MD MS** Vice-President Croatia Natural Law Party Croatia
- 156 **Vesna Samobor M.Sc.** Agricultural College Krizevci Croatia
- 157 **Prof. Drasko Seman** Ecologist Univ. Zagreb Medical School Croatian Man and Biosphere Committee UNESCO South Eastern Mediterranean Sea Project UNESCO Comm. Ed. & Communication INCN European Committee on Environmental Ed. IUCN Croatia
- 158 **Prof Anton Svajger** Un Zagreb Medical School Croatia
- 159 **Prof. Valerije Vrcek Ph.D** organic chemistry University of Zagreb Croatia
- 160 **Dr. Vladimir Zajac Ph.D** oncovirolgy genetics microbiology Cancer Research Institute Czechoslovakia
- 161 **Henrik Westergaard** Odense University Hospital Odense Denmark
- 162 **Alexandra Almeida** biochemist Accion Ecologica Ecuador
- 163 **Dr. Elizabeth Bravo** biologist Accion Ecologica Ecuador
- 164 **Ziad Abdel Razak Aly Ph.D student** Radar and Optic remote sensing images analysis applied on soil Université de Sherbrooke Qc Canada Egypt
- 165 **Ziad Aly Ph.D student** Soil survey and classification Optic and Radar Images Analysis CARTEL Université de Sherbrooke Qc Canada Egypt
- 166 **Dr. Bahaa Awwad M.Sc** oncology hematology bmt landguardians Egypt
- 167 **Mahrous Kandil Ph.D student** soil microbiology and concerning with Genetics Univ. of Minnesota (USA) Egypt
- 168 **Ahmed Said Mohamed Kamel** sweet corn Egypt
- 169 **Dr. Mohamed Salem Ph.D** Molecular Plant Pathology Biological Control Genetic Engineeering and Biotechnology Research In Egypt

- 170 **Prof. Fathy Mahmoud Salem Ph.D** Professor of Nematology Faculty Of Agriculture
Shibin El Kom Minufiya Univ Egypt
- 171 **Dr. Ehab Zayed Ph.D student** tissue culture Breeding ARC FCRI CRD Egypt
- 172 **Dr. Gennadi Kobzar** Senior Scientist Biomedicine Institute of Chemistry Tallinn Technical
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- 173 **Prof. Anne Luik Ph.D** Entomology plant protection Estonian Agricultural University
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- 174 **Sue Edwards M.Sc** botanist and scientific editor lover of all life forms Institute for
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- 175 **Dr. Tewolde Egziabher** Agronomist Min. of the Environment Spokesperson for African
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- 176 **Dr. Liisa Kuusipalo Ph.D** cellbiologist North Carelian Central Hospital Finland
- 177 **Dr. Mark Rawlings Ph.D** Astrophysicist Finland
- 178 **Sylvain Allombert M.Sc. Ph.D.** Student Ecology Centre National de la Recherche
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- 179 **Dr. Thierry Baussant** Biochemist Senior Scientist Pharmaceutical Industry Bellegard
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- 180 **Dr. Jean-Pierre Berlan** Directeur de Recherches INR/CTESI France
- 181 **Dr. Luc G. Bulot** Researcher ESA CNRS 6019- Centre de Sedimentologie-
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- 182 **Dr. Pierre Calinaud Ph.D** organic chemistry France
- 183 **Dr. George Capouthier** Biologist Univ. Paris France
- 184 **MORAND CEDRIC** c LCR Faucheurs Volontaires France
- 185 **Dr. Dominique Cellier** Prof Statistics in Bioinformatics Laboratoire LMRS ABISS
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- 186 **Dr. Marie Christine** BRGM Environment & Procèdes Unite Biotechnologie Orlean France
- 187 **Nathalie Cialdella Ph.D student** agronomist France
- 188 **Olga Daric M.Phil** linguistics France
- 189 **Bertrand desClers M.Sc** Scientific research/Aeronautics/Conservation/Environment IGF
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- 190 **Dr. QUEIROS CONDE Diogo** theoretical biology turbulence geometry of multi scale
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- 191 **Dr. Jean Estrangin** MK General Practice Grenoble France
- 192 **Alain Fardif** Certificat of therapist Paris France
- 193 **PRAT Frederic B.Sc** Information about GMO Geysers France
- 194 **Dr. Du Bus De Warnaffe Ga Tan** sustainable management of temperate forests INRA
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- 195 **Dr. Du Bus De Warnaffe Gaetan Ph.D** Sustainable forest management INRA France
- 196 **Prof. Pierre Henri Gouyon Ph.D** Geneticist specialist of Evolutionary biology Population
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- 197 **Jacques Hallard** Plant breeding Plant pathology Genetics Independant France
- 198 **BAZIN Jean Pierre B.Eng** Medical Imaging INSERM France
- 199 **Dr. Arthur MacKenzie Ph.D** physical chemistry France
- 200 **Etienne Maillet** Logic Philosophy Mathematic Ethic Polititics Anthropology China France
- 201 **Dr. Herve Le Meur** Biomathematician Univ. Paris France
- 202 **Cécilia Meynet Ph.D student** géographe France

- 203 **Ruby Michel B.Eng** chicken breeder ATTAC France
- 204 **Dr. Birgit Müller Ph.D** Social Anthropologist LAIOS CNRS France
- 205 **Dr. Vic Norris** IFR Systems Integres Univ. Rouen France
- 206 **Dr. Jean-Michel Panoff** Microbiologist Univ. of Caen Caen France
- 207 **Dr. J. Pelt** Institut Europeen d'Ecologie France
- 208 **Dr. Bernard PINTUREAU Ph.D** Entomologist INRA France
- 209 **Dr. Christian PRAT** Soil Scientist Agronomist in Latin America Institut de Recherche pour le Développement France
- 210 **Thierry Raffin** Sociologue President de 'Inf'OGM France
- 211 **Prof. Gilles-Eric Seralini** Laboratoire de Biochimie & Moleculaire Univ. Caen France
- 212 **Dr. Jean Staune Ph.D** Post Darwinian Evolutionist Interdisciplinary University Paris France
- 213 **Dr. Christophe Vieren Ph.D** Automatique Universit des Sciences et Techonologies de Lille France
- 214 **Anwar Abo Amer Ph.D student** fluorine chemistry and organometallic chemistry Duisburg Essen University Germany
- 215 **Hudson Angeyo Ph.D student** Physics: Analytical atomic spectroscopy and nuclear techniques in analysis University of Duisburg Germany
- 216 **Dr. Elisabeth B?cking Ph.D** Biologist Germany
- 217 **Dr. Jurgen Boxberger Ph.D** Cell and tissue culture ProCellula Germany
- 218 **Dr. Reinald Doebel** Institute of Sociology Rural and Development Soc. Westfaelische Wilhelms Univ. Germany
- 219 **Dr. Tarek Elsherif** Molecular Biologist TU Munich Germany
- 220 **Lotz Frank Wolfgang** Expert in The Vedic Health System Bestselling Author Germany
- 221 **Brian Gentry Ph.D student** Soft matter physics biophysics Germany
- 222 **Dr. Anita Idel** Author and Zoologist Op'n Dorp 17 Barsbek Germany
- 223 **Dr. Martha Martens** Biologist Bund Naturschutz in Bayern e. V. Munich Germany
- 224 **Ilaria Mazzini Ph.D** paleontologist Germany
- 225 **Dr. Werner Mittelstaedt** President Future Research/Peace Studies Gelsenkir Germany
- 226 **Dr. Jennifer Schmid Ph.D** Plant Ecology; Plant Population Genetic OEko Institut e.V.; Institute for Applied Ecology Germany
- 227 **Dr. Eckart Stein** Physicist Univ. Regensburg Germany
- 228 **Dr. Beatrix Tappeser** Head of Dept. Risk analysis of genetic engineering Institute for Applied Ecology Freiburg Germany
- 229 **Dr. Stefan Thiesen Ph.D** Astronomer and Geographer author of several popular science books one on climate change one on the perils of Biotech German Genterror und Lebenspatente independent Germany
- 230 **Dr. Rebecca C. Wade** Molecular Biology Heidelberg Germany
- 231 **Dr. Christine von Weisaeker** Ecoropa Germany
- 232 **Frank Wolfgang** Research on Vedic Health Food and Bestselling Author Germany
- 233 **EMMANUEL KWAW M.Sc** FOOD SCIENCE STUDENT Ghana
- 234 **Prince K.N Nkrumah B.Sc** Biochemist Development and Advocacy Foundation Ghana
- 235 **Dr. Maria Caparis** Marine Biologist Greece
- 236 **Yannis Coconis** translation Greece
- 237 **Prof. Nicholas Fanourakis Ph.D** Vegetable geneticist Technological Education Institute of Crete Greece

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- 238 **Dr. Costas Giannakenas** Consultant Nuclear Medicine Univ. Patras Medical School Rion-Patras Greece
- 239 **Prof. Tasos Kourakis B.Sc** Geneticist Dept. General Biology & Genetics Medical Faculty Aristotelian University Thessaloniki Greece
- 240 **Harry Papageorgiou M.Sc** Agricultural Sciences Environmental Impact Assessment Greece
- 241 **Anna Gigli** statistical modelling for medicine and biology national research council Greenland
- 242 **Dr Christiane Boecker MCommH** MCommH Community Health Haiti
- 243 **Kevin Li B.Sc.** Hong Kong
- 244 **Prof. Julissa Martin Ph.D student** i do not know what your talking about idk Hong Kong
- 245 **Iren Karacsony B.Sc** social medicine Hungary
- 246 **Prof. Ervin Laszlo** President The Club of Budapest Hungary
- 247 **Prof. Dr Fenyvesi Peter Ph.D** ONCOVIROLOGY MTOKKFI Hungary
- 248 **Dr. Nikki Broglowskhini Ph.D** I am well equipped with all things scientific. The society for science Iceland
- 249 **Dr. Ibrahim Abdul Azeez Ph.D** Effect of acidification on the ecophysiology of freshwater fishes Fathima college of pharmacy kadayannallur 627759 India
- 250 **Dr. Muhua Achary** Environmentalist St. Joseph's College Bangalore India
- 251 **Dr. TANVEER ANSARI Ph.D** Natural Product Chemistry DABUR GROUP India
- 252 **Dr. Muthukumarasamy Arunachalam Ph.D** fish biodiversity fish ecology conservation of ecosystems Manonmaniam Sundaranar university Alwarkurichi Tir India
- 253 **Prof. Jayapaul Azariah** Ecology Environmental Ethics Head of Dept.of Zoology and Director of School of Life Sciences Univ. Madras Chennai India
- 254 **MOHAN BAJIKAR B.Sc** Has introduced important first entry in India biotechnologies Was a Member of Task Force Mission Mode Program of the Dept of Biotechnology Govt of India Fetchus Consultancy Innovators Pvt Ltd India
- 255 **Dr. Sarath Babu Balijepalli Ph.D** Research Scientist with experience in collection evaluation and conservation of agrobiodiversity and natural resources management for crop protection National Bureau of Plant Genetic Resources India
- 256 **Dr. CHANDRESH BORAD Ph.D** Ecology Evolution and Conservation Biological Control Research Laboratory India
- 257 **Dr. Tushar Borse Ph.D** Biochemistry University of pune India
- 258 **Dr. Gopal Yadav Boyina Ph.D** In organic chemistry Sanmar speciality chemicals India
- 259 **Dr. Gopal Yadav Boyina Ph.D** In organic chemistry Sanmar speciality chemicals India
- 260 **Dr. Sreenivas Burra Ph.D** consultant in Natural Resource management Agronomist AMR APARD India
- 261 **Dr. Amar Chouhan Ph.D** master in environment analysis i i f t r India
- 262 **candice coates M.Sc** Lecturer in Biotechnology, Mumbai University. India
- 263 **Dr. Thomas S. Cox** Research Geneticist U.S. Dept. of Agriculture Manhattan KS (retired) - present address Hyderabad India
- 264 **Dr. M I H Farooqi Ph.D** Plant Chemist NBRI India
- 265 **Prof.em Jahnvi Jahnvi M.Sc** mol bio agri university India
- 266 **Dr. Harry Jeyaprakash Ph.D** IPM expert contributed to farming communities 35 years in agricultural extension retired as joint director of agriculture India
- 267 **Dr. Dr Dinesh Kacha M.D** Obesity management Benmoon Pharma Research India

- 268 **Dr. Sudhir Kaura Ph.D** Organic Farming Molecular Genetics Natural Farming Network India
- 269 **Dr. Nelson Kochappavu Ph.D** Natural Health Rural health India
- 270 **Prof Rayana Bhavan Kovutarapu M.Sc** Agriculture Natural Resources biotech agroecology and management with administration (IAMMA) India
- 271 **Dr. Dr Bellie Krishnan Ph.D** Biological Control Sun Agro Biotech Research Center India
- 272 **Prof.em Ranjeet Ku Sah B.Eng** no study India
- 273 **Dr. RAJEEW KUMAR Ph.D** Crop growth modelling fertilizer recommendation Barssica wheat NFCL Hyderabad India
- 274 **Rajesh Kumar Ph.D student** Vegetable Insect Pests of Lepidoptera Indian Agricultural Research Institute India
- 275 **Dr. Joban Modha M.D** ayurvedic onco hematologist nisargayurveda India
- 276 **C. Nanjunda Murthy M.Sc.** Plant Scientist Karnataka India
- 277 **Dr. Divyesh Nagar Ph.D** organic synthetic chemistry alembic ltd India
- 278 **Dr. Dr Sankar Narayanan Ph.D** Environmental Microbiologist KSR college of Arts Science India
- 279 **Satheesh P M.Sc** Grassroots work on food security and organic agriculture in dryland areas and gender Deccan Development Society India
- 280 **Dr. DR GEEVEE PANDALA M.D** virologist India
- 281 **Dr. DR GEE VEE Pandala Ph.D** INVENTIONAL SCIENTIST GVSRC India
- 282 **Dr. Parvaiz Qazi Ph.D** Recombinant DNA technology regional research laboratory canal road Jammu India
- 283 **Dr. N. Raghauram** Plant Molecular Biology Univ. Mumbai India
- 284 **Dr. Atul Sahai Ph.D** Remote Sensing GIS Specialist for Natural Resource Disaster Management HOPE Technologies India
- 285 **Dr. Shreekant Sapatnekar M.D** Community Medicine Haffkine Institute Mumbai India
- 286 **Prof.em Thangavelu Saravanan M.Sc** Scientist in organic Agriculture Agronomist NaturalResourcesProtectionAndDevelopmentSociety India
- 287 **Dr. Sathan Sathan Ph.D** Kill Sulthan India
- 288 **Dr. Chaitanya Sathe Ph.D** industrial water pollution and waste water treatment Hindustan Dorr oliver Ltd India
- 289 **Dr. Bala Ravi Sekhara Pillai Ph.D** Geneticist and Plant Breeder India
- 290 **Sharad Shah** Director of Ace natural foods Vadodara India
- 291 **Devinder Sharma** Geneticist Plant Breeder and Writer Forum for Biotechnology and Food Security New Delhi India
- 292 **Dr. Vandana Shiva** Research Institute for Science and Ecology India
- 293 **Dr. Dr Shirish Shrivastava M.D** Herbal and ethnobotany expert do not favour GM plmts since they disturb the local flora SAPRC India
- 294 **Dr. Dr Shirish Shrivastava M.D** Herbal and ethnobotany expert do not favour GM plmts since they disturb the local flora SAPRC India
- 295 **Prof. Arun Shrivastava** Management Consultant SEDEM India
- 296 **Priya Srinivas M.Phil** Food Science Katra Phytochem Private Ltd India
- 297 **Dr. Parshotam TANDON Ph.D** Entomophagous Insect Behaviour Biological Control of Crop Pests Project Directorate of Biological Control India
- 298 **Prof. Thomas Tharayil Ph.D** tiuruiuiuiruriy India
- 299 **Dr. RAMA KRISHANA THOTA M.Sc** I ve done project in aqua related to pro biotics and

anti biotic in ecology vesper biotech india ltd India

300 **Dr. R.P. Upadhyay Ph.D** Lecturer in Physics India

301 **Prof.em Durga Bhushaiah Vakkapatla M.Sc** VIRAL RNA can be expressed in cytosol on HIV infected T cells university of hyderabd India

302 **Dr. Sanjay Vasoya Ph.D** organic synthetic chemistry alembic ltd India

303 **Gustav Vaz B.Sc** Biotechnology India

304 **Gustavo Vaz B.Sc** Biotechnology India

305 **Erwin Adriawan B.Sc** Campaigner on Anti GMOs Biotani Foundation Indonesia

306 **Dr. Ernawati** Gender and Rural Development Institute of Rural Development Indonesia

307 **TOTO HARA** Senior Consultant Coordinator ICRD Indonesia Chamber of Resources Development Indonesia

308 **Wasis Krisnadi** forest product forest faculty GMU Indonesia

309 **Dr. Sina Ahmadi Ph.D** Bio technologits Iran

310 **Arman Ardalan Ph.D student** Molecular Evolution NIGEB Iran

311 **Dr. Kamran Haeri M.Sc** research scientist MPT Iran

312 **Dr. Amir Jalali M.D** TIM TCM Unani Ayurveda also I have created a new kind of workout called Jalali System Traditional Iranian Medicine TIM Iran

313 **Dr. Saeid Malekzadeh M.Sc** yekom Iran

314 **Sajad Noor** industrial engineering economic asd Iran

315 **Dr. Saeed Yadranji Aghdam M.Sc** none university of tehran Iran

316 **Prof. Sean McDonagh M.Sc** I am a theologian and anthropologist I worked for over 20 years in the Philippines I have written extensively on ethics and genetic engineering catholic priest Ireland

317 **Barry Jude McGuinness** Student Of BSc Biomedical Sciences University College Cork Ireland

318 **Iris Atzmon** represent the public opinion we are not lab animals Israel

319 **Prof. Rita Alicchio** Plant Geneticist Univ. Bologna Italy

320 **Dr. Andrea Amadei** Molecular Biophysics Assistant professor Un. of Rome Tor Vergata Italy

321 **Prof. Drago Antonino B.Sc** History of Physics Bioethics Scientific Committe of Inter Univ. Center on Bioet Italy

322 **Prof. Livia Armandi Ph.D** Agronomist Italy

323 **Dr. Ciro Aurigemma Ph.D** psicologist member of csa CEU/IPV Italy

324 **Dr. Giampiero Barbieri Ph.D** Chemists GMO analysis laboratory Stazione Sperimentale Industrie Conserve Alimentar Italy

325 **Dr. Giovanni G Bazzocchi Ph.D** Entomologist Agroecologist Universita di Bologna Italy

326 **Dr. Stefania Biondi M.Sc** Plant Physiologist University of Bologna Dept. of Biology Italy

327 **Dr. Ernesto Burgio** pediatrician attac Italy

328 **Dr. Tiziana Camorani** psicologa private Italy

329 **Paola Capozzi** plant and soil ecology Italy

330 **Dr. Ferdinando Cerbone** psicologo Italy

331 **Dr Giorgio Cingolani** Agricultural Economist Italy

332 **Dr. Alberto Clarizia M.Sc** Physicist University of Naples Italy

333 **Dr. Raffaella Comito B.Sc** General Practitioner holistic medicine Italy

334 **Dr. Immacolata Coraggio Ph.D** Plant Molecular Biologist Counseil National Research Italy

Open Letter from World Scientists to All Governments Concerning Genetically Modified Organisms (GMOs)

Posted by Joan Russow

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- 335 **Dr. Bruno D'Udine** Behaviour Ecologist University of Udine Italy
- 336 **Dr. Simone De Ph.D** Mathematics Combinatorics National Council of Research Italy
- 337 **Prof. Adriano Decarli** Cancer Epidemiology INST Univ. Milan Italy
- 338 **Prof. Stefano Dumontet M.Sc** soil microbiologist Universit. Basilicata Italy
- 339 **Dr. Enzo Ferrara M.Sc** Metrology in Chemistry IEN EURACHEM Italy
- 340 **Dr. Sergio Francardo B.Sc** Anthroposofical medical doctor Gruppo Medico Antroposofico Italiano Italy
- 341 **Dr. Alessandro Giuliani Ph.D** Biophysics Multidimensional Statistics Istituto Superiore di Sanita Italy
- 342 **Elena Del Grosso** Geneticist Researcher Deptl Evolutionary & Exptl. Biology Univ. Bologna Bologna Italy
- 343 **Dr. Nicolas Kropacek M.D** Public Health Free Lance Researcher Italy
- 344 **Dr. Agostino Letardi M.Sc** ecotoxicologist E.N.E.A. Italy
- 345 **Prof. Ignazio Licata** Full Professor of Theoretical Physics Ist Cibernetica non lineare Italy
- 346 **Dr. Marco Mamone Ph.D** mathematician University of Perugia Italy
- 347 **Prof. Marco Mamone Capria Ph.D** mathematician historian of science epistemologist University of Perugia Italy
- 348 **Dr. Paolo Manzelli M.Phil** Research in Education on Biochemistry LRE EGO CreaNET University of Florence Italy Italy
- 349 **Dr. Bussolati Mariella M.Sc** science writer Italy
- 350 **Dr. Carlo Maurizio Modonesi** Animal and environmental biology Università di Parma Italy
- 351 **Dr. Karin Munck B.Sc** comunication & science Fondazione Medikinale International Parma Italy
- 352 **Prof. Valeria NEGRI Ph.D** geneticist teaches 'Agricultural Genetic Resources' University of Perugia Italy
- 353 **Prof. Francesco Palmirota Ph.D** psycho somatic clinicssocial work AOP Italy
- 354 **Prof. Mariuccia Papa M.Sc** biologist high school teacher Italy
- 355 **Dr. Pietro Perrino Ph.D** Plant Genetic Resources expert in collection conservation characterisation evaluation and utilasation From time to time Prof in Botany and Ecology C N R Germplasm Institute Italy
- 356 **Dr. Francesca Salvemini Ph.D** Biologist Consiglio Nazionale delle Ricerche Italy
- 357 **Prof. Steven N Shore Ph.D** Physicist University of Pisa Italy
- 358 **Prof. Leopoldo Silvestroni** Endocrinologist Univ. of Rome Italy
- 359 **Dr. Francesco Spinazzola M.D** infectivologist Italy
- 360 **Roberto Stefani Ph.D student** Student of Political Science writing final thesis on GMOs Greenpeace Italia Italy
- 361 **Prof. emeritus Shingo Shibata** Hiroshima University; Environmental Sociology and Biosafety Tokyo Japan
- 362 **Prof. Atuhiro Sibatani** Molecular Biologist Osaka Japan
- 363 **Dr Shiron Sugita** Plant Geneticist Nagoya U. Japan
- 364 **Dr Noboru Yagishita** Plant Geneticist Jap. Assoc. Agro-Nature Tokyo Japan
- 365 **Dr Machiko Yasukohchi** PLAN - International Japan Public Relations Team Japan
- 366 **Prof. Julian BAUER Ph.D** Ecologist Forest Scientist working against any GE Tree development and or planting No GEO introductions without PIC of local people GE free zones a must ECOTERRA Intl var East African Universities Kenya

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- 367 **Wycliffe Wanzala Ph.D student** Naturalist University of Nairobi Kenya
- 368 **Dr. Georges Mailliet B.Sc** Pulmonologist Luxembourg
- 369 **Mohd Roshdi Hassan M.Sc** Smart Material university Putra Malaysia Malaysia
- 370 **Al Hanisham Mohd Khalid** International Law Lawyer University Utara Malaysia Malaysia
- 371 **Dr. Rosli Omar Ph.D** Artificial Intelligence Universiti Malaya Malaysia
- 372 **Prof. Elena Alvarez Buylla Ph.D** Molecular Genetics of Plant Development and Evolution UNAM Mexico
- 373 **Douglas Hinds** Dir Gral Center for Community and Rural Development National Coordinator for Organic Production National Confederation of Rural Property Owners Dir of Sp CeDeCoR CNPR CSNI ISHS Mexico
- 374 **Prof. Andres F Keiman Ph.D student** Populations Ecology and Forest Conservation Universidad de la Ciudad de Mexico Mexico
- 375 **Prof. Alberto R. Miranda** Biologist Environmental Public Education Cuernavaca Mexico
- 376 **Rodriguez Mitchell Nemesio** Anthropologist PNUD INI Mexico
- 377 **Dr. Ronald Nigh Ph.D** anthropology specialty in agroecology biodiversity environment; member of SNI CIESAS Mexico
- 378 **Dr. Enrique Vargas Ph.D** Molecular Immunology Universidad Veracruzana Grupo L dico Mexico
- 379 **Dr. Ilya Trombitsky Ph.D** BIOTICA Ecological Society Moldova
- 380 **Prof. Si Bennasseur ALAOUI Ph.D** Organic farming and alternative crops Institut Agronomique et Vétérinaire Hassan II Morocco
- 381 **Prof. Lahcen Kenny Ph.D** Organic Agriculture and Horticulture IAV Hassan II Morocco
- 382 **Mukti Ram Chapagain** Organic agriculture Nepal Organic Agriculture Ctr NOAC Pvt Ltd Nepal
- 383 **M R Chapagain** Organic Sustainable Agriculture and Rural Development Nepal Organic Agriculture Ctr Nepal
- 384 **Maheswar Ghimire** Organic Agriculture Promotion and Inspection Ecoscentre Nepal
- 385 **Prof. Jiwan Rai M.Sc** biochemist nepal organic association Nepal
- 386 **Prof.em Bechan Raut M.Sc** Medicinal Botanist Pokhara University Nepal
- 387 **David Baillie B.Sc** Deep Ecologist Naturopath NZ Forest Gardening Research Harmony Farm of Harmony Farm New Zealand
- 388 **Dr. Robert Anderson** Physicist Nuclear Medicine Technical Institute Hamilton New Zealand
- 389 **Dr. Troy Baisden Ph.D** Ecosystem Science (Soil Science/Ecology) Landcare Research New Zealand
- 390 **Marie Buchler M.Sc** Zoology masters editor and journalist and university tutor Bio Dynamic Farming and Gardening Association New Zealand
- 391 **Dr. George Coghill** Software Engineering University of Auckland New Zealand
- 392 **Dr. Bernard Conlon B.Sc** Rural GP New Zealand
- 393 **Dr. Tim Ewer** Physician Mapua Health Centre Nelson New Zealand
- 394 **Dr. Michael Godfrey** Environmental Toxicologist General Practitioner Taura New Zealand
- 395 **Brendan Hoare M.Sc** Organic systems sustainable design integrated land management UNITEC eonation2020 Organic Federation of NZ New Zealand
- 396 **Sigrid D. Houlette B.Sc.** B.Sc. Solid Waste Manager Environmental Engineering Local Government Lower Hutt New Zealand

- 397 **Jessica Hutchings Ph.D student** Maori environmentalist Maori science and resource management Lecturer Faculty of Science Victoria University New Zealand
- 398 **Hussila Keshaw M.Sc** Molecular Biology The University of Auckland New Zealand
- 399 **Dr. Peter King Ph.D** Sociologist Family Centre Social Policy Research Unit New Zealand
- 400 **Dr. Nick Lambrecht** Consultant Revegetation Ecologist Wellington New Zealand
- 401 **Dr. Shona L. Lamoureaux** Plant Ecology Christchurch New Zealand
- 402 **Dr. Ruth Lawson Ph.D** Parasite Epidemiologist and GE Campaigner New Zealand
- 403 **Helmut Lubbers M.Sc** ecologist ecology discovery foundation new zealand New Zealand
- 404 **Dr Robert Mann** Ecologist Auckland New Zealand
- 405 **Dr. Ted Ninnes Ph.D** Sociology and Psychology University of Waikato New Zealand
- 406 **Robin W. Ord** Molecular Geneticist Law Student Hamilton New Zealand
- 407 **Tara Satyanand M.Sc** Molecular genetics University of Auckland New Zealand
- 408 **Dr. Sean Weaver Ph.D** Environmental Policy Victoria University of Wellington New Zealand
- 409 **Dr Colin Wells** Director of Energy Management Dept of Physics University of Otago New Zealand
- 410 **Katharine White** I am an experienced artist and G E Free H B N Z campaigner I am and have been in the position to put my graphic expertise to use in the cause of the planet T L C Wellington and E I T Hawke s Bay New Zealand
- 411 **Dr Peter R Wills** Theoretical Biology Univ. Auckland New Zealand
- 412 **Prof. Leong Yap Ph.D** Ergonomist Industrial Designer Massey University New Zealand
- 413 **Dr. Emmanuel AFOLABI Ph.D** come and be healed physiotherapy and ecology Nigeria
- 414 **Dr. Ralph Nwaokoro Ph.D** ECOTOXICOLOGIST UNIVERSITY OF LAGOS Nigeria
- 415 **Dr. Azeez Bolaji Odewunu M.Sc** National association of science students Nigeria
- 416 **Dr Ingrid Olesen** Senior Research Scientist Institute of Aquaculture Res. Ltd Norway
- 417 **Dr. Lars Rasmussen MD** MD General Practitioner Univ. Oslo Mesnali Norway
- 418 **Prof. Terje Traavik** Virologist University of Tromso Norway
- 419 **Dr. Hussain Ahmad M.Sc** fermentation sold state fermentation koji university of veterinary and animal sciences lahor Pakistan
- 420 **Dr. Obaid Ali M.Phil** Bioavailability and Pharmacokinetic studies Govt of Pakistan Pakistan
- 421 **Prof. Muhammad Bilal M.Sc** research work on maize mmri yusafwala sahiwal pakistan Pakistan
- 422 **Dr. Shakeel Farooqi Ph.D** Genetics University of Karachi Pakistan
- 423 **Muhammad Imran Imran** Biochemist damask_786 Pakistan
- 424 **Farhat Jabeen Jabeen B.Sc** biotech biotech Pakistan
- 425 **Prof. Omer Khayyam M.Sc** food research programe food research Pakistan
- 426 **Dr. Washdev Malhi Ph.D student** whole soules and mind control jai ma jee Pakistan
- 427 **Sajjad Naqvi M.Sc** University of Karachi Pakistan
- 428 **Dr. Mian Qaseem Ph.D** Nuclier Magnetic Resonance Retired Educational Adviser Govt of Pakistan Pakistan
- 429 **Dr. Tasneem Rizvi Ph.D** Molecular Biophysics. PCSIR Laboratories Complex Lahore PAKISTAN. Pakistan
- 430 **Madiha Saeed Rizvi B.Sc** Deptt of Biotechnology Univerity of Karachi Pakistan
- 431 **Dr. Naveed Yusuf M.Phil** veterinarian university of veterinary and animal sciences lahor Pakistan

- 432 **Prof.em Eric Jimenez Ph.D** none Aquatic Panama
- 433 **Ethel Japeth B.Sc** none police Savings & Loan Papua New Guinea
- 434 **Dr. Sergio Barrio Tarnawiecki** Science Policy National Research Council of Lima Peru
- 435 **Prof.em Pedro Angco Jr** H2O limpyobaybay founder Philippines
- 436 **GEONATHAN BARRO** Doing Anti GMO campaigns coordinates with other NGOs on our Anti GMO GE stand KALITAWHAN WORKING GROUP ON BIODIVERSITY Philippines
- 437 **GEONATHAN BARRO** Coordinator Coordinates with NGOs POs and other Organizations on Anti GMO campaigns and other related issues and concerns KALITAWHAN WORKING GROUP ON BIODIVERSITY Philippines
- 438 **Paterno Borlagdan M.Sc** Agricultural Engineer Filipino Inventors Society Philippines
- 439 **Javier M Claparols** Agriculture Rice Sugar Aquaculture Milkfish Bangus shrimp Businessman Ecologist Ecological Society of the Philippines Philippines
- 440 **Antonio M CLAPAROLS M.Sc** Ecologist farmer marine and terrestrial biodiversity economics Ecological Society of the Philippines Philippines
- 441 **Johnny Danganan B.Sc** lay out artist in publications Sustainable Agriculture advocate Philippines
- 442 **Dr. Clint E Sco Ph.D student** Expert in psychology concerning students PICHES and PIDO Philippines
- 443 **Dr. Pamela G. Fernadez** Agronomist U. Philippines Los Banos Philippines
- 444 **Delilah Galang B.Sc** Natural Therapy Consultant Cancer Council Philippines
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- 468 **Nelson Alvarez JD** Sociologist and Lawyer Agriculture and development consultant
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- 471 **Dr. Joseph Mezei M.D** quantum medicine Medical Center Tongtian Romania
- 472 **Prof. Vladimir Kuznetsov Ph.D** Plant Physiology and Biochemistry Institute of Plant
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- 478 **Dr. Brigitte N.B. Schwabe-Berg** Medical Officer Groote Schuur Hospital Cape Town
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787 **Dr. Barnett Salzman M.D** 30 yrs of medical research expertise public health board cert psychiatrist USA
788 **Thomas J. Saunders** Student Environmental Science Humboldt State Univ. Arcata USA
789 **Dr. Stephen Scanlan Ph.D** Global inequalities international development and food security University of Memphis Department of Sociology USA
790 **Dr. Derek Scholes Ph.D** Geneticist New York State Dept of Health USA
791 **Dr. Nancy A Schult** Entomologist U of Wisconsin-Madison USA
792 **Dr. Brian Schultz** Ecologist Hampshire College USA
793 **Dr. Kathy Schwab** Health Researcher MPH RD LD Center for Health Research Portland Oregon USA
794 **Prof. David Schwartzman** Geochemist Howard Uni. Washington DC USA
795 **John Scibetta B.Sc** Protein Chromatography Amersham Pharmacia Biotech USA
796 **Dr. Linda Jean Sheperd** Biochemist Gaia Blessings USA
797 **Colleen Sheppard** Wholistic Energy Therapist USA
798 **Prof. Michael Sheridan Ph.D** Environmental Anthropologist Middlebury College USA
799 **Dr. Jacob Silver Ph.D** Political Scientist Social Analyst Huron Mountain Research Services USA
800 **Dr. Joseph Simcox Ph.D student** Food Plant Diversity and Germplasm The Rare Vegetable Seed Consortium USA
801 **Witold Skiba Ph.D** Theoretical Physics MIT USA
802 **Dr. Gerald Smith** Zoologist U. Michigan USA
803 **Kim Smith** I consume only organic food and desire to see a ban put on GM as soon as possible USA
804 **Kristina Smith Jacoba B.Sc** agronomist USA
805 **Dr. John Soluri** Historian of Science Carnegie Mellon U USA
806 **Doreen Stabinsky** Geneticist International Environmental Politics and Policy California State University at Sacrament USA
807 **Irl Stalcup** Corporate Training LA County Dept of Parks and Recreation USA
808 **Emma Steen** Dietician (retired) Portland USA
809 **Dr. Jesse Stewart** concernment for the application of education and assuring the liberty freedom and unity in life F F H USA
810 **Pamela Stimler B.Sc** Board Certified Internist USA
811 **Prof.em Budalur Thyagarajan Ph.D** organic chemistry retired USA
812 **Dr. Patricia Patterson Tursi Ph.D** My Dissertation concerned Mind Body Interactions I have studied health for 40a years I am a master gardener and former organic farmer SW Missouri Organic Association USA
813 **Prof. John Vandermeer** Biologist Univ. Michigan Ann Arbor USA
814 **Rosa Vazquez** Student in Biology Ohio State University USA
815 **Susan Vegors** Psychologist Consultant Solutech Indianapolis USA
816 **Prof. Robert Vernon Heimer Ph.D** The study of brain chemistry during psychotic episodes none USA
817 **Paul Von Hartmann B.Sc** Ecologist biodynamic agriculturist Project P E A C E USA
818 **Prof. Kenneth G. Walton** Neurochemist Vedic Medicine Maharishi Univ. IA USA

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819 **Dr. Bruce West Ph.D** DC Editor Health Alert Most renowned expert in the use of phytonutrients for cardiac patients with more patients than any living doctor Health Alert Newsletter USA

820 **Ryan White** Student St Lawrence University USA

821 **Paul Whitson M.Sc** healthcare administrator USA

822 **Dr. George M. Woodwell** Director The Woods Hole Research Center USA

823 **Dr. Suzanne M. Wuerthele** Toxicologist Toxicology & Risk Assessment federal regulatory agency Denver USA

824 **Dr. John Zamarra** M.D. Cardiology Fullerton USA

825 **Dr. M Zamir Ph.D** Research Scientist University USA

826 **Prof. Miguel Angel Nunez M.Sc** 14 years working and researching in Agroecological Sciences in the tropical areas of Latin America IPIAT Venezuela

827 **Julio Eduardo Perez** Genetics of Marine Organisms Universidad de Oriente Venezuela

828 **Taurai Mutanda M.Sc** Biotechnologist University of Zimbabwe Zimbabwe

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