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

- 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
- Prof. Jonathan King, Molecular Biologist, MIT, Cambridge, USA
- Prof. Gilles-Eric Seralini, Laboratoire de Biochimie & Moleculaire, 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

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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.

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GM Science Exposed. A comprehensive dossier containing

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

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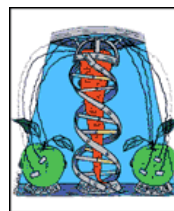
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announced a £200m aid package(14). Four corporations control 85% of the world trade in cereals at the end of 1999(15). Mergers and acquisitions are continuing.

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 Cartagena 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

- 1 **Dr. Dennis Smith** poopay den s Afghanistan
- 2 **Prof.em Calum Wright M.Phil** I am a expert on the study of life none Afghanistan
- 3 **Prof. Polycap Dank B.Sc** science polycap research institute Angola
- 4 **Prof. Adolfo E. Boy** Horticulture and Sustainable Agri. Univ. Moron Chair of Inst. of Sustainable Agriculture Argentina
- 5 **Alfredo Galli** Agronomist Grupo de Reflexion Rural Argentina
- 6 **Dr. Jorge Kaczewer M.D** MD complementary medicines scientific journalism author of the book in spanish language Transgenic Risks for Human Health ECOMEDICOS Argentina
- 7 **Jorge Eduardo Roulli** Ecologist Grupo de Reflexion Rural Argentina
- 8 **Damien Beaumont B.Sc** Postgraduate student at the University of New England Armidale Australia
- 9 **Peter Belbin B.Sc** Land Management Consultant Tafe Australia
- 10 **Dr. Graeme E. Browne** General Practitioner Melbourne PSRAST Australia
- 11 **Dr. Judy A. Carman** Epidemiologist Flanders University Adelaide Australia
- 12 **Dr. Catherine Clinch-Jones** General Practitioner Adelaide Australia
- 13 **Mr Sid Cowling B.Sc** Environmental Biology Consultant Australia
- 14 **Dr. Philip A. Davies** Geneticist Adelaide Australia
- 15 **Rocco Di Vincenzo M.Sc** Chief Dietitian Swinburne University Hospital Australia
- 16 **Prof. Horst W. Doelle** Micobiologist Univ. Queensland retired Chair of International Organisation for Biotechnology and Bioengineering Director MIRCEN-Biotechnology Brisbane and Pacific Regional Network Australia
- 17 **Dr. Lynette J. Dumble** Medical Scientist Women's Health and Environment University of Melbourne Australia
- 18 **Doug N Everingham** Physician MB BS Univ Syd 1946 Ex MPs Association Australia
- 19 **Angela Fehringer** Anthropology Student Sydney Australia
- 20 **Prof. Frank G.H.P. Fisher** Graduate School of Environmental Science Clayton Australia

- 21 **Kasia E. Gabrys** Environmental Scientist Environmental Science National Trust of Australia Melbourne Australia
 22 **Prof. Adrian Gibbs Ph.D** Virologist retired Australia
 23 **Dr. Dion Giles Ph.D** Analytical chemistry organic chemistry chemical education Stop MAI (WA) Australia
 24 **Stephen Glanville** PDC ECOS Design Australia
 25 **Dr. Veronica R. Griffin** Consultant Nutrition and Environmental Medicine Cairns Australia
 26 **Vince Halpin B.Sc** Acupuncturist Herbalist Pharmacist Australia
 27 **Dr. Richard Hindmarsh** Environmental Social Scientist Univ. Queensland Australia
 28 **Margaret Jackson B.Sc.** Genetics National Genetics Awareness Alliance Australia
 29 **Dr. Warren Kinne Ph.D** Philosopher theologian Society of St Columban Australia
 30 **Steven Kiss B.Sc** Biological/ Organic Farm Manager broad acre crops sheep cattle medicinal herbs Australia
 31 **Dr. Elmar Klucis Ph.D** Biochemistry Biology Retired Australia
 32 **Keith Loveridge B.Sc** Bachelor Environmental Soc Sci RMIT University Croydon Conservation Society Australia
 33 **Lisa McDonald** Agronomist CRC for Sustainable Sugar Production James Cook University Australia
 34 **Michelle McLaren** Bach Nutrition and Dietetics Australia
 35 **Dr. Peter J. McMachon** Plant Physiologist Genethics Australia Conservation Foundation Australia
 36 **Elham Monavari B.Sc** Bsc Maj Biology Masters in Env. Management Student Cities for Climate Protection Project Officer Australia
 37 **Dr. Angela Morris Ph.D** Root nodule development Research School of Biological Sciences ANU Australia
 38 **Dr. Paul Nelson** CSIRO Land and Water PMB Australia
 39 **Tim Osborn** Web Development Australia
 40 **Dr. Sharron L. Pfueller** Biochemistry/Environmental Studies School of Geography and Environmental Science Monash University Melbourne Australia
 41 **Katrina E. Preski** Environmental Science Monash University Melbourne Australia
 42 **Dr. Peter Renowden** Strategic Planner Melbourne Australia
 43 **Sandra Russo** Principal of College As a Homoeopath I lecture have a private clinic and mentor students of Homoeopathy Adelaide Training College of Complementary Medicin Australia
 44 **Frank Samson B.Sc** R & D Project Manager (Physics) Sola International Holdings Australia
 45 **Glenn Sorensen B.Sc** Natural Products Chemist/Phytochemist Jurlique Australia
 46 **Dr. Rosemary Stanton Ph.D** Nutritionist Australia
 47 **Dr. Maarten Stapper Ph.D** Farming Systems Agronomist Australia
 48 **Michelle Starr Ph.D student** Natural Therapist none Australia
 49 **Dr Corinna-Britta Steeb Ph.D** Pathophysiology Medical Sceinces Nutrition Klein Research Institute Australia
 50 **Dr. Ted Steele** Molecular Immunologist U. Wollengong Australia
 51 **Dr. Philip Stowell M.D** GP working in Nutritional and Environmental Medicine n a Australia
 52 **DI Gertrude Kaffenbock Ph.D student** Ph.D. candidate Agricultural Economist St. Polton Austria
 53 **Thomas Klemm** Psychologist Konrad Lorenz Institute Austria
 54 **Dr. Maria G. Neunteufel** Economist Vienna Austria
 55 **Dr. SYED NAZMUL HUDA Ph.D** IN NUTRITION AND CHILD DEVELOPMENT NUTRITION AND FOOD SCIENCE UNIVERSITY OF DHAKA Bangladesh
 56 **Muhammed Saiful Islam M.Sc** Entomologist DAE Bangladesh
 57 **Golam Kibria M.Phil** EcologyCultureBiodiversity UBINIG Bangladesh
 58 **Zakir Kibria M.Phil** Ecology Biodiversity Culture BanglaPraxis Bangladesh
 59 **Dr Farhad Mazhar** Ecologist New Agricultural Movement Bangladesh
 60 **Dhirendra Panda Ph.D student** MOBILISATION AND ACTIVISM the collective Bangladesh
 61 **De Beer Daniel M.Sc** Lawyer Lawyers Without Borders and Vrij university Brusse Belgium
 62 **Dr. Gaëtan du Bus** Forest Engineer Univ. Catholique de Louvain INRA Belgium
 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
 64 **Pablo Servigne Ph.D** agronomist engineer PhD in Biology ULB Belgium
 65 **Dr. Michel Somville Ph.D** GMO s Health environmental risks GREENS EFA group in the European parliament Belgium
 66 **Els Torreelle Ph.D student** biotechnology Vrije Universiteit Brussels Belgium
 67 **Flavia Camargo De Oliveira** Biologist UFPR Brazil
 68 **Prof. MOHAMED HABIB Ph.D** 39 years of research experience Biological Control and Agro Ecology University of Campinas Brazil
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 72 **Dr. Leovegildo Matos Ph.D** Animal nutritionist Research Embrapa Brazil
 73 **Renata Menasche** Anthropologist Federal Un. of Rio Grande do Sul Brazil
 74 **Prof. Luís César Nunes B.Sc** Education PCRJ Brazil
 75 **Ventura Eduardo Souza Barbeiro** Engineer agronomist ABRAMA Brazilian association of Enviroment Brazil
 76 **Franco Werlagn M.Sc** Business Administration GaiaVillage Project Brazil
 77 **Dr. Stefan Panaiotov Ph.D** molecular microbiology National Center of Infectious and Parasitic Diseas Bulgaria
 78 **Dr Thomas R. Preston** Un. of Tropical Agriculture Cambodia
 79 **Prof. Lonnie Aarssen Ph.D** Ecologist Queen s University Canada
 80 **Prof. Paul Antze Ph.D** medical anthropology Canada
 81 **Dr. Sandra Awang Ph.D** Sociologist/Writer on biodiversity biodemocracy and food security Canada
 82 **Prof.em Henry Becker Ph.D** 7 years in applied biology 35 years teaching research in chemical engineering currently writing book on nutrition health disease Queen s University Canada
 83 **Dr Warren Bell MD** Canad. Assoc. of Physicians for the Environ. Canada
 84 **Prof. emeritus Alfred M. Braxton** Anthropologist Univ. British Columbia Canada
 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
 86 **Denis Cauchon M.Sc.** Ph.D. candidate Toxicology Ecole HEC Montreal Canada
 87 **Dr. Samit Chakrabarty Ph.D** Systems Neurophysiologist Canada
 88 **Yoon C. Chen B.Sc.** DPM Podiatrist Foot Clinic Lethbridge Alberta Canada
 89 **Bert R. Christie** Plant Breeding Research Scientist Agriculture and AgriFood Canada Charlotte Town Canada
 90 **Dr. E. Ann Clark Ph.D** crop physiologist Plant Agriculture University of Guelph Canada
 91 **Una Coghlan** nterested in securing a healthy food chain Voice of Women Canada
 92 **Prof. Alain Cuerrier** Taxonomy/Botany Quebec Univ. of Montreal Canada
 93 **Prof. Joe Cummins** Geneticist University of Western Ontario Canada
 94 **Prof. Edwin E. Daniel** FRSC Health Science McMaster Univ. Ontario Canada
 95 **Prof. Dennis Dennis** pooppy none Canada
 96 **Justin Duncan B.Sc** Environmental biology law and policy Queen's University Canada
 97 **Prof. Chavez Eduardo R Ph.D** Animal nutrition production and mangement agricultural production systems McGill University Canada

- 98 **Virginia F. Flamarique** AMD Consultant Agrologist Edmonton Canada
- 99 **Glenn Fletcher M.Sc** Masters degree research in toxicology occupational health McMaster University Canada
- 100 **Dr. Josh Gallant Ph.D** surgery general Canada
- 101 **Dr. Imme Gerke Ph.D** Cell biologist BIOTEPP Canada
- 102 **Julie Guenette M.Phil** Philosophical enquiry into our relationship to nature Ottawa University Canada
- 103 **Tanya Handa M.Sc.** Ecologist Univ. Toronto Toronto Canada
- 104 **Virginia Jacobsen** organic growers Canada
- 105 **Aaron Jette** Anthropolopgy student McGill Univ. Montreal Canada
- 106 **Prof. Leonard Kasdan Ph.D** Social Anthropology and Resource and environmental studies Dalhousie University (retired) Canada
- 107 **Dr. Gavin A. Kemp** ret. Researcher Vegetable Crop Breeding Lethbridge Canada
- 108 **Zorica Knezevic M.Sc** Senior Consultant Environment Stantec Consulting Ltd Canada
- 109 **Prof. Ronald Labonte** Population Health Research Director Ontario Canada
- 110 **William J. Lewis** Linguist Univ. of Victoria British Columbia Canada
- 111 **Prof. Abby Lippman** Epidemiologist & Geneticist McGill Un. Canada
- 112 **Jan Martel B.Sc** Student in biology University of Sherbrooke Canada
- 113 **Prof. Ralph C. Martin** Plant Science Nova Scotia Agricultural College Truro Canada
- 114 **Prof. Dennis R. McCalla** Biochemist & Geneticist emeritus McMaster University Hamilton Canada
- 115 **Laura Mitchell** Earth Scientist APEGGB Canada
- 116 **Mary Mitchell** teacher Canada
- 117 **Dr. Anne Morgan** Waterloo Climate Change Entomolgist/ Univ. of (retired) Canada
- 118 **Dr. M. Murphy** Pediatrician NAMBLA Canada
- 119 **Dr. James A. Nero** D.C. General Practitioner neuromusculoskeletal medicine Coquitlam Canada
- 120 **Anna D. Noikov B.A.B.Ed.** B.A.B.Ed. Wholistic Practitioner Edmonton Canada
- 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
- 131 **Dr. Wee Chong Tan Ph.D** 5 years of reaserch and several papers on sustainable farming and the dangers of GM foods Canadian College for Chinese Studies Canada
- 132 **Mark Thompson Ph.D student** Molecular Evolutionary Genetics The University of Calgary Canada
- 133 **Noemi Tousignant M.Sc** history of science technology and medicine Canada
- 134 **Caroll Tranchant Ph.D** Enseignant chercheur Sciences et technologies des aliments Canada
- 135 **Dr. Pierre Turcotte Ph.D** Plant breeder Canada
- 136 **John B. Van Loon M.Sc.** Storage Entomologist retired Canadian Grain Commission Winnipeg PSRAST Canada
- 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
- 139 **Prof. R.M. Wolfson** Physicist Maharishi Vedic College Ottawa Canada
- 140 **Prof. Howard Woodhouse Ph.D** Philosopher of Education and Co Director of Saskatchewan Process Philosophy Research Unit University of Saskatchewan Canada
- 141 **Dr. John C. Worketin** Retired computer scientist Ontario Canada
- 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** oncovirolology 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 Univ. Estonia
- 173 **Prof. Anne Luik Ph.D** Entomology plant protection Estonian Agricultural University Estonia
- 174 **Sue Edwards M.Sc** botanist and scientific editor lover of all life forms Institute for Sustainable Development Ethiopia
- 175 **Dr. Tewolde Egziabher** Agronomist Min. of the Environment Spokesperson for African Region Ethiopia
- 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 Scientifique Montpellier PSRAST France
- 179 **Dr. Thierry Baussant** Biochemist Senior Scientist Pharmaceutical Industry Bellegard France
- 180 **Dr. Jean-Pierre Berlan** Directeur de Recherches INR/CTESI France
- 181 **Dr. Luc G. Bulot** Researcher ESA CNRS 6019- Centre de Sedimentologie- Paleontologie Marseille PSRAST France
- 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 Université France
- 186 **Dr. Marie Christine** BRGM Environment & Procédes Unite Biotechnologie Orlean France
- 187 **Nathalie Cialdella Ph.D student** agronomist France
- 188 **Olga Daric M.Phil** linguistics France
- 189 **Bertrand desCiers M.Sc** Scientific research/Aeronautics/Conservation/Environment IGF France
- 190 **Dr. QUEIROS CONDE Diogo** theoretical biology turbulence geometry of multi scale systems Ecole des mines de Paris France
- 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 Geyser France
- 194 **Dr. Du Bus De Warnaffe Ga Tan** sustainable management of temperate forests INRA France
- 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 biology and Plant breeding Université de Paris Sud France
- 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 Technologies 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 **Ilenia 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
- 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 Thessaloni 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 Fenyesi 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 kadayanallur 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 Jahnavi Jahnavi M.Sc** mol bio agri university India
- 266 **Dr. Harry Jeyaprakash Ph.D** IPM expert cotributed to farming communities 35 years in agricultural extention 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 Resorces biotech agroeconomy 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 reccommendation 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 heametologist 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** virologost 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. Shreekanth 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 flowra SAPRC India
- 294 **Dr. Dr Shirish Shrivastava M.D** Herbal and ethnobotany expert do not favour GM plmts since they disturb the local flowra 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** tiuruiuiuiuriry 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 hyderabad India
- 302 **Dr. Sanjay Vasoya Ph.D** organic synthetic chemistry alembic ltd India
- 303 **Gustav Vaz B.Sc** Biothechnology 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 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
 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 Epidermiology 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** Anthropolofical 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** communication & 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 utilisation 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
 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 speciality in agroecology biodiversity environment; member of SNI CIESAS Mexico
 378 **Dr. Enrique Vargas Ph.D** Molecualr 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** Oraganic 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 Suistainable 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 Farmof 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 econation2020
 Orngaic 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 Nannes 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 Willis** 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 Odewenu 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 ESco 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
 445 **Dr. Richard Kharpungal Ph.D** Agronomist U Philippines Philippines
 446 **Prof. Mark Erick Magbanua Ph.D student** no Philippines
 447 **Prof. Mark Erick Magbanua M.Sc** metro manila Philippines
 448 **Ben Malayang** University of Philippines Los Banos Laguna Philippines
 449 **FRANCIS MORALES M.Phil** Advocacy Officer of MASIPAG Mindanao MASIPAG Philippines
 450 **Charles T. Olsen** D.C. Chiropractic Clinic Davao Clinic PSRAST Philippines
 451 **Prof. Marlon Pareja Ph.D student** Cell and Molecular Biology Wildlife Conservation Society of the Philippines Philippines
 452 **Nicanor Perlas B.Sc** Agricultural Scientist and Ecologist Sustainable Agriculture Specialist Center for Alternative Development Initiatives Philippines
 453 **Dr. Romeo F. Quijano** Pesticide Action Network Pharmacologist/Toxiologist Philippines
 454 **Dr. Dante Jr Simbulan Ph.D** Neurophysiology De La Salle University Health Sciences Campus Philippines
 455 **Dr. Jaime A Sison** Animal Nutrition and Feed Milling Aqua Ace Nutrition Inc Philippines
 456 **Dr. MARVIN UMALI M.D** pediatrician doctors of the philippines Philippines
 457 **Prof. Oscar B. Zamora** Agronomist U. Philippines Los Banos Philippines
 458 **Prof. Joel Mckevin Zamora Ph.D** b s of s and t psu Philippines
 459 **Dr. Szymczyk Ryszard Ph.D** methodology of cultivar testing wildlife conservation Poland
 460 **Prof. Vicinzineddu Itunculu M.D** biochemistry portug univrsity Portugal
 461 **Rui Pereira M.D** General Practice Portugal
 462 **Prof. Clara Queiroz Ph.D** Geneticist Retired University of Lisboa Portugal
 463 **Teresa Silva Ph.D student** Coconut Portugal
 464 **Dr. Margarida Silva** Molecular Biologist Portuguese Catholic Univ. Portugal
 465 **Dr. Franciso J.C.M. Teixeira** Researcher Geophysics Geological and Mining Institute Lisbon Portugal
 466 **Fatima C. Teixeira** Researcher Marine Geology Lisbon Portugal

- 467 **Carlos Altieri M.Sc** Toxicity and pesticides in water Health Environmental Department Puerto Rico Puerto Rico
- 468 **Nelson Alvarez JD** Sociologist and Lawyer Agriculture and development consultant Puerto Rico
- 469 **Dr. Clara Carrasco Ph.D** Molecular Biology and Genetics Puerto Rico
- 470 **Dr. Shridhar Devidas Ph.D** Basically an Ecologist turned environmental management system specialist advocating sustainable resource use among the industries Bureau Veritas Qatar
- 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 Physiology RAS Russia
- 473 **Dr. Ali Mohammed Ph.D** Chief executive officer Companies Saudi Arabia
- 474 **Prof. WAIL SALAH B.Sc** BIOTECH Saudi Arabia
- 475 **Prof. Vladimir Ajdacic Ph.D** nuclear physics carcinogenicity none retired Serbia
- 476 **Peter Sevich Ph.D student** Serbia
- 477 **Glenn Ashton** Director Ekogaia Foundation and Green Party South Africa
- 478 **Dr. Brigitte N.B. Schwabe-Berg** Medical Officer Grootte Schuur Hospital Cape Town South Africa
- 479 **Ben Van Der Walt** Director in Nutritional Advisory Forum Agree on the concern of Genetically Manipulated Food GNLD South Africa
- 480 **Nicole Venter** The Southern Health Ecology Institute SHAE Institute South Africa
- 481 **Dr. SangSoo Hur Ph.D** Lecturer Sociology of Science and Technology Sungkonghoe University South Korea
- 482 **Prof. Suk Hwan Kim Ph.D** Sociology of Science and Technology Kookmin University South Korea
- 483 **Bingbin LU** International Law Transnational Law and Business University TLBU South Korea
- 484 **Dr Gregorio Alvar** Biotechnologist. Computense U. Madrid Spain
- 485 **Javier Blasco** Aragonese Ctr for Rural European Information Spain
- 486 **Prof. F. Pura Duart-Soler** Sociology Univ. Valencia PSRAST Spain
- 487 **Prof. Ernest Garcia Ph. D. Ph. D.** Sociology Univ. Valencia Dept. Sociologia I Antropologia Social Valencia Spain
- 488 **ANDRES MAGANA B.Eng** electronic instrumentation escorial sostenible Spain
- 489 **Andres Magana Garcia B.Sc** world heritage freelance consultant escorial sostenible Spain
- 490 **Dr. Pablo Malo** Psychiatrist Consultant Mental Health Center Bilbao Spain
- 491 **Jose Ramon Olarieta Ph.D** Soil Science Agriculture Land use Universitat de Lleida Spain
- 492 **Dr. Rosario Sierra De Grado Ph.D** Forest geneticist University of Valladolid Spain
- 493 **Dr. Jagath Perera B.Eng** electrical engineering uom Sri Lanka Sri Lanka
- 494 **Adil Hassan Ahmed Abdelmageed Ph.D student** Breeding of vegetable crops Vegetable Physiologist and researcher and lecturer University of Khartoum Sudan Sudan
- 495 **Dr. Kamal El Siddig Ph.D** Tree eco physiologist Sudan
- 496 **Dr. Isameldeen Khair Ph.D** Education and training Sennar University Sudan
- 497 **Dr. Balgis Osman Elasha Ph.D** Environmentalist Higher Council for Environment Natural Resources Sudan
- 498 **Dr. Bo Dahlin** Education Science Karlsbad University Karlsbad Sweden
- 499 **Folke G Nther Ph.D student** Sustainability issues and Ecological Engineering Systems Ecology Sweden
- 500 **Prof. Every N. Gummesson** Management Stockholm Univ. PSRAST Sweden
- 501 **Folke Gunther Ph.D student** Sustainability issues and Ecological Engineering Systems Ecology Sweden
- 502 **Said O. Holmin Lic.** Technology Rector Computer Science College of Creative Computer Science Stockholm Sweden
- 503 **Dr. Katarina Leppanen** History of Ideas Gothenburg Uni Sweden
- 504 **Dr. Jaan Suurkula** Physician Physicians and Scientists for Responsible Assessment of Science and Technology Stockholm Sweden
- 505 **Dr. Daniel Amman** Cell Biologist Tech. Switzerland
- 506 **Dr. Charles Beard M.D** General Practitioner CNBPharma Switzerland
- 507 **Dr. Ruth Goseth** Dermatologist ISDE Switzerland
- 508 **Florianne Koechlin** Biologist World Wildlife Fund Switzerland
- 509 **Dr. Nicole Maestracci Beard Ph.D** Microbiologist Virologist Immunologist Serono International Switzerland
- 510 **Yvan Maillard** dipl. Sc. Nat. ETH Environmentalist Ecology Fribourg PSRAST Switzerland
- 511 **Yves Schatzle** Agronomist and Economist Switzerland
- 512 **Verena Soldati** Biotechnologist Basler Appell Switzerland
- 513 **Dr. KuoChi Yeh M.D** Geriatric Public Health and Hospital Administration medical legal Taipei City Hospital Zhongxing Branch Taiwan
- 514 **Arend De Haas M.Sc** Conservation Ecologist African Conservation Foundation Tanzania
- 515 **Mwanaidi Kafuye M.Sc** HOLDER IN BIOCHEMISTRY NATIONAL INSTITUTE FOR MEDICAL RESEARCH Tanzania
- 516 **Dr. William Kisinza Ph.D** Epidemiology Public Health Specialist National Institute for Medical Research Tanzania Tanzania
- 517 **Danial Minja B.Sc** PARASITOLOGY & MICROBIOLOGY NATIONAL INSTITUTE FOR MEDICAL RESEARCH. Tanzania
- 518 **Acleus Rutta M.Sc** Immunologist National Institute For Medical Research Tanzania
- 519 **Dr. Peter Burt Ph.D** Water Quality Management Prince of Songkla university Thailand
- 520 **Dr. Jidbhong Jayavasu Ph.D** Medical Virologist Arogya Smasai Thailand
- 521 **Prof. Omboon Luanratana** Pharmacologist Univ. of Mahedol Bangkok Thailand
- 522 **Piengporn Panutampon** biology/medical biology Biothai (Thai Network on Community & Biodiversity) Thailand
- 523 **Prof. Reungchai Tansakul Ph.D** Biologist Prince of Songkla University Thailand
- 524 **Lianchamroon Witoon** Sustainable agriculture Biothai Thailand
- 525 **Jaroen Compeerapap** Environmental Law and Development Center The Netherlands
- 526 **Jaap Hamers M.Sc** Ecologist The Netherlands
- 527 **Tedje Van Asseldonk M.Sc** biology phytotherapy inst f ethnobotany zoopharmacognosy The Netherlands
- 528 **Dr. Siirsel Tas Dizdar Ph.D** Radiation Oncology Turkey
- 529 **Prof. KANYANDAGO Peter Ph.D** Expert and researcher in endogenous knowledge and African cultures Uganda Martyrs University Uganda
- 530 **Dr. Michael L. Abrahams** (retired) Aeronautics Bristol PSRAST UK
- 531 **Maryam Al Alami Ph.D student** Science in Society civic and stakeholder participation GM food law Manchester Metropolitan University UK
- 532 **Michael Alexander M.Phil** Theoretical Physics UK
- 533 **Chris Anthony B.Sc** Qualified amateur UK
- 534 **Janey Antoniou M.Sc** Molecular Biologist UK
- 535 **Dr. Michael Antoniou** Molecular Geneticist Guy's Hospital UK
- 536 **Paula F. Baillie-Hamilton** Academic Researcher on Pesticides Perthshire UK
- 537 **Dr. Susan Bardocz** Geneticist Aberdeen UK
- 538 **Dr. Jeremy Bartlett** Plant Molecular Geneticist (formerly John Innes Institute) UK
- 539 **Manoel Bascoi** Geneticist PhD Candidate JII UK
- 540 **Dr. David Beasley** Genetic Algorithm University of Bath UK
- 541 **Dr. David Bellamy** Biologist and Broadcaster London UK
- 542 **Lynda Birke** Biologist Liverpool Uni. Veterinary School UK
- 543 **Dr. David A.H. Birley** General Medical Practitioner Swindon UK
- 544 **Sarah Blenkinsop B.Sc** Environmental Consultant/Campaigner/Organic grower Planet Services Environmental

Consultancy UK
545 **Gerard C. Bodeker** Ed. D. Senior Clinical Lecturer in Public Health Univ. Oxford Medical School UK
546 **Dr. Jeffrey Boss** Cell Biologist Dept. of Physiology Bristol University UK
547 **Sophie H. Bown Ph.D. Candidate** Zoology Manchester Univ. UK
548 **Paul Breslaw** Computer Scientist Consultant Financial Research Forest Row UK
549 **Dr. Allan Britton Ph.D** Environmental Health and Safety UK
550 **Prof. Roy Butterfield** DSc.DIC CEng. MICE MStruct.E. Civil Engineer Southampton UK
551 **Dr. Alessandra Cavalletti Ph.D** Research Associate Imperial College STM UK
552 **Maureen Childs B.Sc** Internet Developer British Computer Society UK
553 **Emma Churchman B.Sc** Social Scientist UK
554 **Dr. Janet Cotter-Howells** Environmental Geochemist Lecturer in Soil Science Aberdeen University UK
555 **Dr. Stephen Cross** Molecular Population Geneticist Birmingham University UK
556 **Dr. Alan Currier** Taxonomist IRBV UK
557 **Gordon Daly Ph. D. student** Gene Therapist Kennedy Inst. London UK
558 **Stuart Daly Ph. D. student** Transgenic group Charing Cross Hosp. UK
559 **Dr. Yuliya Demydchuk Ph.D** Molecular biology of producers of antibiotics Cambridge university UK
560 **Dr. Mike Dodd** Ecologist Open University UK
561 **Prof. Jane Eberlynn M.Sc** environmental studies concerning health erzats peace co. UK
562 **Tom Fox** Amateur neurology biochemistry psychology sociology and philosophy enthusiast UK
563 **Joseph A. Gari** Marie Curie Research Fellow Political Ecology University of Oxford UK
564 **Dr. Mike Gillman** Ecologist Open University UK
565 **Dr. Alessandro Gimona** Research Scientist Ecology MLURI Aberdeen UK
566 **Edward Goldsmith** Editor The Ecologist London UK
567 **Zac Goldsmith** Editor The Ecologist London UK
568 **Prof. Brian Goodwin** Biologist Schumacher College UK
569 **Lale Gurel** Bec. Manager Nature – Macmillan Publishers London UK
570 **Adrian Haffegge B.Eng** B.Eng Electronic Engineer UK
571 **Julian Haffegge M.phil** Biophysicist Institute of Science in Society UK
572 **Dr. Keith H. Halfacree** Univ. Lecturer Geography Univ. of Wales Swansea UK
573 **Dr. John E. Hammond** Engineer Highfield UK
574 **Dr. David J Heaf** Biochemist Wales UK
575 **Dr. Marion Hersch** Assistive Electronic Technologies Dept. Electronics & Electrical Engineering Univ. Glasgow Glasgow Scotland UK
576 **Dr. Mae-Wan Ho** Geneticist and Biophysicist Open University UK
577 **Dr. Caroline Hoffmann Ph.D** Ecotoxicologist Centre for Human Ecology UK
578 **Patrick Holden** Director Soil Association UK
579 **Dr. Vyvyan Howard** Toxipathologist U. Liverpool UK
580 **G. D. Humphreys M.Sc** technologist aerodynamics UK
581 **Gerald Humphreys B.Sc** Aerodynamics Operational Research Information Technology Hemel Hempstead GM action group UK
582 **Dr. Brian Hursey** ex FAO Senior Officer for Vector Borne Diseases Neath UK
583 **Prof. Tim Ingold** Anthropologist University of Aberdeen UK
584 **Lorna Jackson M.Sc** Ecology soil science HDRA the organic organisation UK
585 **Magnus L. Johnson** School of Science & Management U.C. Scarborough UK
586 **Peter Preston Jones MSc** Environmental Campaigner UK
587 **Dani Kaye M.Sc.** Scientists for Global Responsibility London UK
588 **David Kaye M.Sc.** Scientists for Global Responsibility London UK
589 **Dr J. M. Kerr** Bioethics Winchester College: Oxford U. UK
590 **Dr. Philip Kilner** Cardiac Imaging Specialist Royal Brompton Hospital UK
591 **Prof. Richard Lacey** Microbiologist Leeds UK
592 **Dr. Jonathan R. Latham** Molecular Virologist previously JII and Genetics Dept. Wisconsin-Madison Univ. Exeter UK
593 **Dr. Colin L.A. Leakey** Plant Geneticist Cambridge UK
594 **Chris Lucas** MIMIS Complexity Scientist CALResCo UK
595 **Dr. Paul Marchant Ph.D** Chartered Statistician UK
596 **Jan Martinez** social visionary holistic entrepreneur Just Rural Development Trust S W E N UK
597 **Dr. Joan Mason** Chemist Cambridge UK
598 **Druvananda Mauree B.Sc** graphic designer school of design UK
599 **Dr. Alan Mayne** Statistician Scientists for Global Responsibility London UK
600 **Darl N. Middleton Ph. D. student** Environ. Science Dept. Civil Engineering Univ. Manchester UK
601 **Dr. Erik Millstone** Science & Technology Policy Research Sussex Univ. Brighton UK
602 **Patrick Mulvany** C Biol Food Security Policy Adviser specialising in Agricultural Biodiversity Intermediate Technology Development Group (ITDG) UK
603 **Dr. Harash Narang** Pathologist BSE expert UK
604 **Dr. Eva Novotny** Astrophysicist Univ. Cambridge (retired) UK
605 **Prof. Bob Orskov Ph.D** Animal nutrition Rural development in developing countries macaulay research Institute UK
606 **Dr. David Packham** Material Scientist U. Bath UK
607 **Nicholas Papadimitriou M.Sc** conservation and eco philosophy Institute of science in society UK
608 **Dr. Barnaby Peacocke Ph.D** Agricultural Science International Development ITDG UK
609 **Fatima Pelica** Biochemist PhD Candidate JII UK
610 **Marcus Petz B.Sc** Biology/Geology Environmental Politics UK
611 **George Pilkington M.Sc** Countryside management UK
612 **Dr. Michel Pimbert** Agricultural Ecologist International Institute for Environment and Development London UK
613 **Dr. Robert C. Poller** Organic Chemist U. London UK
614 **Michael Pooler** A Level Biology Student human relations People Of The Earth UK
615 **Dr. Malcolm Povey Ph.D** Food Scientist Reader in Food Physics University of Leeds UK
616 **Dr. Ronald Press Ph.D** Chemical engineer UK
617 **Bala Puspa** UK
618 **Prof. Arpad Pusztai** Biochemist Formerly from Rowett Institute UK
619 **Dr. Jerry Ravetz** Philosopher of Science London UK
620 **Dr. Irene Ridge** Biologist Open University UK
621 **Dr. Barry T. Rubin** Physical/Electro Chemist Director Davis-Rubin Associates Ltd Northants UK
622 **Dr. Barry T Rubin Ph.D** Physical Electro Chemistry Business Consultant CD DVD Replication for Business Davis Rubin Associates Ltd UK
623 **Angela Ryan** Molecular biologist Open Univ. UK
624 **Dr. Jean A.D. Saunders BDS** BDS LDS RCS Dental Surgeon (retired) Faringdon UK
625 **Prof. Peter Saunders** Biomathematician U. London UK

- 626 **Dr. Wendy Seel Ph.D** Plant Sciences University of Aberdeen UK
 627 **Martin Shaw** Geneticist UK
 628 **Dr. Ellis Snitcher M.D** Teaching and research in integrative medicine Middlesex University UK
 629 **Dr. Peter Sollich** Theoretical Physics Dept. Mathematics King's College London UK
 630 **Vanessa Spedding M.Phil** science and science policy journalism None UK
 631 **Dr. Gesa Staats.de.Yanes** Veterinarian Toxicologists U. Liverpool UK
 632 **Prof. Ian Stewart** Biomathematics U. Warwick UK
 633 **Dr. Gene S. Thomas** Agriculturist UK
 634 **Simone Turchetti Ph.D student** History of Science Technology and Medicine CHSTM UK
 635 **Dr. Margaret J. Tyson** Glossop PSRAST UK
 636 **Dr. Rob Verkerk Ph.D** Sustainable agriculture and health UK
 637 **Dr Tom Wakeford** Biologist U. of East London UK
 638 **Barry Weir B.Sc** Physics Engineering OGL HMAF UK
 639 **Martyn Wells** Astronomer UK Astronomy Technology Centre Edinburg UK
 640 **Barbara Wood-Kaczmar M.Sc.** Science writer UK
 641 **Julian Wootton** Conservationist London UK
 642 **Dr. Karen Wren** University teacher Geography St. Andrews Univ. St. Andrews Fife UK
 643 **Linda Yeodal B.Sc** MNIMH Medical Herbalist UK
 644 **Dr. JOHN ZARB Ph.D** Small scale farming systems Senior Research Fellow Newcastle University NEWCASTLE UNIVERSITY UK
 645 **Dr. Grygoriy Petjuch Ph.D** Ecology genetics Institute of Agroecology and Biotechnology Ukraine
 646 **Dr. Maulud Betaieb Ph.D** environmental microbiology management United Arab Emirates
 647 **Nelson Alvarez JD** Sociologist and Lawyer Agriculture and development consultant Uruguay
 648 **Dr. Rayane Abusabha** Senior Research Associate Department of Nutrition College of Health and Human Development Penn State University USA
 649 **Prof. Miguel A. Altieri** Environment Science Policy and Management Univ. Calif. Berkeley USA
 650 **Ruth Alviola Posadas M.Sc** Aquaculturist State Food Safety Officer MS DMR USA
 651 **Biff Appia** autism USA
 652 **Dr. Catherine Badley** Biologist University of Michigan USA
 653 **Dr. Britt Bailey** Senior Researcher CETOS Ca USA
 654 **Prof. Phil Bereano** Council for Responsible Genetics U. Washington USA
 655 **Prof. Stephen Bialkowski Ph.D** Analytical Environmental Chemistry Department of Chemistry Utah State University USA
 656 **Andrew Bigler** Infrared Systems USA
 657 **Dr. Walter Bortz** Physician Palo Alto USA
 658 **Dr. Douglas H Boucher** Ecologist Hood College USA
 659 **Nancy Brokaw M.Sc** Identifying and treating disease through organic whole food Nutrition Foundation for Nutritional Therapy and Application USA
 660 **Nancy Brokaw Gerchak M.Sc** Dedicated to finding Causes rather than treating SYMPTOMS of disease researcher CRA Practitioner Holistic Healthcare Consultant Foundation for Nutritional Therapy and Application USA
 661 **Claire Cabeza M.Sc** Environmental Scientist W.A.T.E.R.S. for Salmon People USA
 662 **Dr. Neil J. Carman** Clean Air Program Director Sierra Club Austin Texas USA
 663 **Ricardo Carvajal Ph.D student** agricultural ecology University of Michigan USA
 664 **Liane Casten M.Phil** M.Phil journalist and author on food pesticides public policy public health etc. Chair Chicago Media Watch USA
 665 **Prof. Liebe F. Cavalieri** Mathematical Ecology Evolution and Behaviour Univ. Minnesota St. Paul USA
 666 **Claire Caveza M.Sc** Project leader for Chum Salmon genetic sampling fisheries biologist for Native American tribe in the Pacific NorthWest W.A.T.E.R.S. for Salmon People USA
 667 **Vijaykumar V.C. Chalasani** MS Consultant East Brunswick USA
 668 **Dr. Ignacio Chapela** Microbiologist & Ecologist U.C. Berkeley USA
 669 **Dr. Frederick Cichocki Ph.D** Ecologist Graves Museum of Natural History USA
 670 **Kristin Cobelius M.Sc. Student** M.Sc. Student U. Michigan USA
 671 **Dr. Alan Connor Ph.D** Ph D in Community Planning Development Univ Of Mich Practiced in Zambia and the U S Taught at Univ of Mich and Headed program at Siena Heights College Friends Committee on Unity with Nature Democratic USA
 672 **BARBARA CRAWFORD** SURVIVAL INDEPENDENT USA
 673 **Dr. Martha Crouch** Biologist Indiana University USA
 674 **Jill Davies** Stream Ecologist Organic Farmer Montana USA
 675 **Dr. Carolyn F.A. Dean MD ND** MD ND Consultant Integrative Medicine Homeopathic Pharmakeia NY USA Board of Women for a Safe Future USA
 676 **Tricia Deane** Certified Organic and nonGMO Food Supplier USA
 677 **Burgess Dillard** Natural Scientist Self USA
 678 **Earth Duarte Trattner Ph.D student** Social and Ecological Impacts of Biotechnology UC Berkeley USA
 679 **Dr. Chris Duffield Ph.D** Visiting scientist Stanford University USA
 680 **Dr. David Ehrenfeld** Biologist/Ecologist Rutgers University New Jersey USA
 681 **Mr Irucka Embry** Studying civil and environmental engineering and Spanish University of Tennessee student USA
 682 **Andrew Epstein B.Sc** Environmental Policy/planning sustainable development The Nature Conservancy USA
 683 **Dr. Samuel Epstein** School of Public Health Univ. Illinois Chicago USA
 684 **Juiet S Erazo Ph. D. student** PhD student U. of Michigan USA
 685 **Sanek Erem** USA
 686 **Sanekus Erem** USA
 687 **Prof. John B. Fagan** Maharishi University of Management Fairfield Iowa USA
 688 **Dr. Don Fitz** Research Psychologist and Editor Synthesis/Regeneration: A Magazine of Green Social Thought USA
 689 **Dr. Ty Fitzmorris** Ecologist Hampshire College USA
 690 **Dr Michael W Fox** Veterinarian & Bioethicist Washington DC USA
 691 **Dr. Chris Francovich Ph.D** Learning Through Participation Practice Lightfiled Inc USA
 692 **Cynthia A. Frye** FS/MS Student Biology Univ. Texas Medical Branch USA
 693 **Prof. John Garderineer** Biologist U. Michigan USA
 694 **Dr. Barbara K. Given** Faculty Researcher George Mason Univ. Fairfax USA
 695 **Dr. Jay L. Glaser** MK Medical Director Maharishi Ayurveda Medical Center Lancaster USA
 696 **Dr. Parameswaran Gopikrishnan Ph.D** Financial Enginner Physicist USA
 697 **Panatey Great** Company inc USA
 698 **Dr Herve Grenier** Atmospheric Sciences and Climate Change Univ. Washington USA
 699 **Dr. Don Hall Ph.D** Intermolecular adiabatic bioag marine Bear Creek Research USA
 700 **Dr. Gayle Robin Hamilton** Assoc. Prof. Centre for the Advancement of Public Health Fairfax VA USA
 701 **Rev. Dorothy A. Harper** Biotethics Washington USA

702 **Maria Harrington** currently working on my Masters of Science in Nutrition at Bastyr University USA
703 **Prof.em Kristi Harris B.Sc** plant molecular biology murray state USA
704 **Paul C. Helgeson** BSME Senior Engineer Middleton WI USA
705 **Gosha Hello** Company inc USA
706 **Prof. Martha Herbert** Pediatric Neurologist Mass. Gen. Hosp. USA
707 **Patrick Hickey Ph.D** Resource renewability and quality of life Sedona Recycles USA
708 **Daniel J. Highkin** Internist Vancouver Washington USA
709 **Dr. Joseph Hilou** Clinical Nutrition Chiropractic USA
710 **Dale Hoover** Organic food eater USA
711 **Heidi Horn** interested in what i eat sebastian USA
712 **Prof. emeritus John Hotchkiss Ph.D** Ethnography of Indigenous Botanical Systems USA
713 **Dr. Paul Houle Ph.D** Theoretical Physics USA
714 **Dr. Philip H Howard Ph.D** Rural Sociology Rural Coalition Washington DC USA
715 **Prof. Ruth Hubbard** Biologist Harvard University USA
716 **Andrew J. Hund** Sociologist Arcata USA
717 **Panatey I Like Your Site** Company inc USA
718 **Alex Jack** Planetary Medicine Jushi Institute Becket Mass USA
719 **Soraya Jacob** student USA
720 **Eric Jacobson Ph.D** Medical anthropologist Dept. of Social Medicine Harvard Medical School USA
721 **Dr. Michael Janson** General Practitioner Nutrition Cambridge USA
722 **Emile C Joel B.Sc** Research Chemist Retired Smithsonian Institution USA
723 **Robert W. Johnson** Material Scientist DSM Desotech Elgin Illinois USA
724 **Christine Johnston Ph.D student** oncology USA
725 **Dr. Gary P. Kaplan** Assoc. Prof. Neurology North Shore Univ. Hosp. NYU School of Medicine Mass USA
726 **Dr. Arlene M. Kellman** D.O. Physician Tucson USA
727 **Prof. Jonathan King** Molecular Biology MIT Cambridge Council for Responsible Genetics USA
728 **Rev Thomas Klein** Orthodox Priest USA
729 **Dr Jack Kloppenburg** Un. Wisconsin Rural Sociologist USA
730 **Heidei A. Kratsch** R.D./Graduate Student Plant Physiology Univ. Wisconsin USA
731 **Dr. Louis H. Krut** MK CHB.:MD St. Louis Univ. Medical School Missouri USA
732 **U.V. Kutzli Ph. D. student** U of Michigan USA
733 **Dr. Marc Lappe** Geneticist and Director CETOS Ca USA
734 **Dr. Chris Lawrence Ph.D** Extensive work in science education outside the box USA
735 **Prof. Mark X M Lei** Plant genomics and breeder in rice and kenaf University of California Chinese Alumni Associatio
USA
736 **Prof. Xiaomao Lei** Research and Education in agricultural sciences University of California Chinese Alumni Associatio
USA
737 **Dr. Herman Lerner M.D** Nutritionally oriented physician USA
738 **Dr. Barry Lia Ph.D** sustainable agriculture USA
739 **David Lindley** USA
740 **Sean Lyman** Student Gettysburg College USA
741 **A J Maimbourg** Keen desire to see GM foods banned due to potential health problems USA
742 **Dr. Timothy Mann** Geographer Hampshire College USA
743 **Hugh Mann** non pharmaceutical health education organicMD org USA
744 **Anne-Marie Mayer Ph. D. student** Nutrition Cornell Univ. USA
745 **Christine McCullum Ph. D. student** Nutritional Sciences Cornell University USA
746 **Lynn V. McIndoo** Student Environmental Resources Engineering Humboldt State Univ. Arcata USA
747 **Dr. Dwight McKee M.D** Am Board of Int Med certified in Internal Medicine Medical Oncology and Hematology Strong
background in clinical nutrition immunology and holistic med USA
748 **Vuejuin McKersen M.Sc** Natural Resource Manager U. Michigan USA
749 **Dr. Joan P Mencher Ph.D** Culturao Anthropologist work on issues of agriculture including sustainable agriculture
primarily in India Involved in fights against GMOs and issuesof the co Lehman College of CUNY and CUNY graduate Center
USA
750 **Dr. Stephen L. Mikesell** Anthropology and Political Ecology Univ. Wisconsin Madison USA
751 **Dr. Bill Misner Ph.D** Nutrition E CAPS Inc USA
752 **Leuren Moret Ph.D student** Independent Scientist expert in radiation and public health Past President Association
for Women Geoscientist USA
753 **Dr. Usha Mukhtyar** M.D. Consultant Gynecology Obstetrics Bronx New York USA
754 **Najeeba Naja Ph.D** THE QURAN IS TRUE MANKIND ARE U DEAF DUMB BIND WERE U OR WERE U NOT A DROP OF
SPERN ISNT THE ONE WHO GIV E LIFE able to GIVE LIFE TO THE dead THE HUMAN RACE I ISLAM IS TRUE USA
755 **Elaine Needham** illustrator researcher writer speaker none USA
756 **Prof.em JB Neilands Ph.D** Professor of Biochemistry Univ Calif Berkeley USA
757 **Prof. Stuart A. Newman** Developmental Biology New York Medical College Valhalla New York USA
758 **Panatey Nice To See Your Site Is Being Updated** Company inc USA
759 **Lena S Nicolai Ph. D. student** University of Michigan USA
760 **Dr. Ingrid C. Northwood** Biochemist Simon Fraser University USA
761 **Dr. Ronald E. Openshaw** Adjunct Faculty Geology Physics Maharishi University of Management Fairfield USA
762 **Trina Paulus** food issues sculpture writing Hope For the Flowers USA
763 **Marial Peelle** Biol./Anthropologist Undergrad. Swarthmors College USA
764 **Dr. Ivette Perfecto** Associate Professor, School of Natural Resources and Environment University of Michigan USA
765 **Dr. Ilya Sandra Perlingieri Ph.D** author The Uterine Crisis 2003 independent scholar USA
766 **Chris Picone M.Sc.** Soil Microbiologist U. Michigan USA
767 **John Pierre B.Sc** Concerned Citizen USA
768 **William Pizer** Many years as an organic farmer Schoharie Certified Organic Hydroponic Greenhouses USA
769 **Dr. Vasiliki Plerou Ph.D** Physics USA
770 **Dr. Gregory Pratt Ph.D** Air pollution Minnesota Poll Contr Agncy Univ of Minnesota USA
771 **Dr. James W Prescott Ph D Ph.D** Developmental Neuropsychologist Cross Cultural Psychologist See www violence
de Institute of Humanistic Science USA
772 **Linda Prout M.Sc** nutrition writer speaker consultant Lifehift USA
773 **Dr. Caros R Ramirez** Biologist St Lawrance University USA
774 **Prof. Philip J. Regal** Dept. Ecology Evolution and Behavior Univ. Minnesota St. Paul USA
775 **Corinna Richards Ph.D student** sociologist (health and biotechnology) AmbiguousMedia USA
776 **Prof. R.H. Richardson** Professor of Integrative Biology University of Texas Austin USA
777 **Claudia Riumallo** Mother concerned about her children future health Mother USA
778 **John Robb** permaculture USA
779 **Dr. Susan L. Roberts** MSRDL Health and Nutrition Sue Roberts Health Concepts USA

780 **Annika Rockwell** Certified Nutritionist Consultant RockwellNutrition.com USA
 781 **James Rose** Ceptual Institute USA
 782 **Dr. Peter M. Rosset** Ins. for Food and Development Policy USA
 783 **Prof. Philip B. Rudnick** Emeritus Chemistry West Chester Univ. Pennsylvania PSRAST USA
 784 **Dr. Arthur Rybeck** D.D.S. Dentistry and Organic Farmer Wheeling USA
 785 **Dr. Elizbet Sahtouris** Biologist & Author USA
 786 **Dr. Elisabet Sahtouris Ph.D** evolution biologist futurist Living Systems Design USA
 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 Sacramento 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 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 40+ 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
 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 Zamarrá** 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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