

**biotechnology
commission**



**Agriculture and Environment
Biotechnology Commission (AEBC)**



**annual report
2002-2003**

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Introduction

1. The Agriculture and Environment Biotechnology Commission (AEBC) was launched by the Government in June 2000 with a remit to provide independent strategic advice on developments in biotechnology and their implications for agriculture and the environment.
2. This report covers the period October 2002 to November 2003. It sets out how we have approached our work, and our key achievements over the year.
3. Our origin was a review in 1999 by the Cabinet Office and the Office of Science and Technology of the Advisory and Regulatory Framework for Biotechnology. This review concluded that a broader approach was needed for strategic issues, and the AEBC forms part of the new strategic framework.
4. The AEBC was set up to be an experimental and innovative advisory body, and the Government appointed our twenty members from a diverse range of backgrounds, with a wide range of skills and expertise. We are charged with working in an open and transparent way, to look at the broad picture, and to take ethical and social issues into account as well as the science. In the highly sensitive and complex area of biotechnology, we aim to assist the process of constructive public debate involving all interests and encourage respect for the spectrum of views.
5. We develop our advice to Ministers by gathering and analysing evidence and debating the issues thoroughly and robustly. We report jointly to Margaret Beckett, the Secretary of State for Environment, Food and Rural Affairs, and to Patricia Hewitt, the Secretary of State for Trade and Industry. We also report to the following Ministers in the devolved administrations: Ross Finnie, Scottish Executive Minister for Environment and Rural Development, Carwyn Jones, Welsh Assembly Minister for Rural Development and Wales Abroad and Angela Smith, Minister of the Environment, Northern Ireland.

SUMMARY

5. Our third year has seen the Government respond positively to our report, *Animals and Biotechnology*. The Government's full response is available on our website (www.aebc.gov.uk). The Government also accepted our advice for a public debate to take place about the possible commercialisation of GM Crops. The Chair and several other members of the AEBC were members of the debate steering board which published its report, *GM Nation? The Findings of the Public Debate*, in September 2003. Our third major report, *GM Crops? Coexistence and Liability* was published on 25 November 2003. The report looks at the key issues of coexistence and liability were GM crops to be grown commercially in the UK.

How we have gone about our work

6. The AEBC is committed to working openly and transparently. We have held full Commission meetings in a number of locations around the United Kingdom (see Annex B). We use our website (www.aebc.gov.uk) and a mixture of approaches to promote our meetings locally and nationally. The minutes of Commission meetings are posted on our website. We publish our draft

reports, as well as the final versions, on our website. We have a long list of stakeholders with whom we keep in touch.

7. All of our meetings this year have been held in public. We continue to explore a variety of innovative approaches to help us fulfil our remit to engage the public. These principles were also employed in the public debate on GM, which allowed the public to frame the issues for debate and focused on getting people whose voice had not been heard to participate in the programme.
8. We have open dialogues with a wide range of interested groups and organisations. The Commission tries to be innovative in selecting the audiences it targets and the way it chooses to engage with them.
9. We always welcome suggestions or comments about our work and priorities, and about the best ways to approach our work. We actively encourage feedback from everyone who attends our open meetings.

What we have done this year

PUBLISHED OUR THIRD MAJOR REPORT

10. Our third major report, *GM Crops? Coexistence and Liability* was published on 25 November 2003.
11. The report looks at whether it would be practical for the commercial production of GM crops to coexist with existing conventional and organic systems of agricultural production in a way that secures continuing real choice to consumers, as well as the issue of what would happen if the commercial production of GM crops turned out to have a damaging effect on the environment.
12. This was a challenging report to produce. Coexistence and liability are complex and contentious issues, and the Commission members hold a wide range of perspectives. Furthermore, the report was produced against a background of changing political and legislative circumstances, both at national and EU level.
13. Much of the initial work was undertaken by two working groups of the Commission, looking at Consumer Choice and Environmental liability respectively. But the final report, *GM Crops? Coexistence and Liability* is a report of the full Commission. All members agreed its content, including the nine recommendations to Government in which the Commission was unanimous. The report can be viewed on our website (www.aebc.gov.uk, under "Reports").
14. The working groups tested their emerging conclusions with stakeholders as they went along. Two well-attended stakeholder seminars were held in April 2003. Reports of these meetings can also be found on our website.

GM PUBLIC DEBATE STEERING BOARD PUBLISHED ITS REPORT

15. *GM Nation? The Public Debate* was held as a result of a recommendation in the AEBC's report *Crops on Trial* (September 2001).
16. In its response to this recommendation, Government asked the AEBC to provide advice on: how and when to promote an effective public debate on the possible commercial growing of the FSE crops, who should be involved, and how to make best use of the results of such a debate.
17. The Secretary of State for Environment, Food and Rural Affairs invited Professor Malcolm Grant, Chairman of the AEBC, to lead the debate and to appoint an independent steering board. He appointed a board of 11 members, 7 of whom were, at the time of their appointment, members of the AEBC.
18. The members of the Public Debate Steering Board were:
Chair: Professor Malcolm Grant CBE
Anna Bradley
Dr Dave Carmichael
Professor Phil Dale
Clare Devereux* (Director, "Five Year Freeze")
Professor Robin Grove-White
Judith Hann
Lucian Hudson* (Director of Communications, Defra)
Gary Kass* (Parliamentary Office of Science and Technology)
Professor Jeff Maxwell OBE
Dr Paul Rylott*

*non-AEBC members (Dr Paul Rylott was subsequently appointed as a member of the AEBC)
19. The debate took place alongside an assessment of the overall costs and benefits of GM crops by the Prime Minister's Strategy Unit (PMSU) and an independent review of the science of GM. Several members of the AEBC helped PMSU in their work and Julie Hill and Phil Dale were appointed as members of the GM Science Review Panel.
20. *GM Nation? The Public Debate* was an unprecedented, unique and innovative nationwide event. The issues for discussion were framed by members of the public, through a series of workshops held over a fortnight in November 2002. Briefing materials were prepared, and distributed in paper copy, and by CD-Rom and a website. A video was also made.
21. The debate was formally launched on 3 June 2003 with a press briefing in London, and 6 major regional events. These were followed by public meetings across the country. COI communications, who were appointed by the Steering Board to manage the debate programme day-by-day, estimated that between 16 June and 18 July there were over 600 regional, county and local meetings. In total 36,557 feedback forms were completed.

22. The GM Public Debate Steering Board published a full and unanimous report of the outcomes of the debate, *GM Nation? The Findings of the Public Debate*, on 24 September 2003. The report can be viewed from our website. It received widespread media coverage and was welcomed by Government. Ministers are committed to respond formally to its findings.

What the Commission's working groups have been doing

23. The Commission has taken much of its work forward in working groups. The groups undertake initial framing of the issues in consultation with stakeholders and with the Commission as a whole, and prepare drafts for debate by the full Commission.
24. The working groups over the past year have been considering:
- Liability
 - Consumer Choice and Coexistence

LIABILITY

25. This group continued its work on liability in agriculture and the environment relating to GMOs. It considered whether the existing liability regime was sufficient, whether it needed a revision, and whether there were other better ways of addressing potential issues raised.
26. The group produced a liability scenario consultation paper on 30 September 2002 and received responses from farming bodies, farmers, private citizens, NGOs, agricultural institutes and industry bodies.
27. The group held an evidence taking session in November 2002 which included evidence from lawyers, a social research discussion and a discussion on farming perspectives.
28. The group held a stakeholder seminar in April 2003 to test and develop its tentative conclusions and to consider unanswered questions. The seminar and subsequent discussions with stakeholders provided invaluable evidence and influenced the working group's thinking.

CONSUMER CHOICE AND COEXISTENCE

29. This group continued its work on consumer choice issues from two angles: what consumers want now and may want in the future; and how this could be delivered in practical terms by producers.
30. The group considered what factors affect consumers' purchasing decisions, the regulatory provisions that will impact on consumer choice and, were GM crops to be commercialised, how they might coexist with other forms of agriculture.
31. The group held a stakeholder seminar in April 2003 to discuss the practicability of coexistence measures with key stakeholders. The seminar and subsequent discussions with stakeholders provided invaluable evidence and influenced the group's thinking.
32. The two working groups were merged in April 2003, and their findings were incorporated into the report on Coexistence and Liability, published in November 2003.

33. In addition, the AEBC was represented on the research review group for a baseline study commissioned by Defra on impacts of crop and livestock production systems. The study, *A Review of Research into the Environmental and Socio-Economic Impacts of Contemporary and Alternative Arable Cropping Systems*, was published in May 2003.
34. Details of the groups' membership and terms of reference are at Annex D.

Working with other bodies

35. Our Chair and Deputy Chair, Professor Malcolm Grant and Julie Hill, have had a range of formal and informal contacts with other regulatory and advisory bodies in the area. The Chair has had meetings with Ministers from Defra and from the Devolved Administrations, and Professor Sir David King, the Government's Chief Scientific Adviser. Sir Brian Bender (Permanent Secretary, Defra) spoke at a Commission pre-meeting dinner in September.
36. Professor Malcolm Grant spoke at a range of events following *GM Nation? The Public Debate*, including Hampshire County Council's GM Debate Conference; a Foundation for Science and Technology discussion meeting; Swiss Re, International Biotechnology Forum, Zurich; Society and Biosciences Seminar, University College London; Innogen Conference, Edinburgh; and the Steele Raymond Annual Lecture, Bournemouth.
37. Professor Malcolm Grant gave evidence to the House of Commons Select Committee on Environment, Food and Rural Affairs in October 2003 as part of their enquiry on *GM Nation? The Public Debate*. The Committee's report, *Conduct of the GM Public Debate* [HC1220], was published on 20 November 2003.

Membership

38. The initial three-year period of appointment of members of the Commission expired at the end of January 2003. The Commission lost no members during that period. Two members, Professors Banner and Mepham, decided not to seek re-appointment, and Dr Turner stood down at the end of July 2003. The remaining members were reappointed by Ministers, some for a further two years and some for three years.
39. Dr Paul Rylott and Dr David Buckeridge were appointed to the Commission from April 2003, and Professor Keekok Lee from October 2003 (See Annex A).

Media relations

40. The AEBC's media relations are handled from within the secretariat

Fees and resources

41. Commission members are not salaried but do receive fees for days they spend on AEBC work. These fees are £150 per day for members and £188 for the Chair and Deputy Chair. Members can also obtain reimbursement for their travel, subsistence and other direct costs of AEBC work.
42. The Commission has a secretariat of five full-time equivalent staff plus a part-time communications advisor provided by Government and based in the Office of Science and Technology, part of the Department of Trade and Industry.
43. Throughout the period covered by this report the Secretary to the Commission was Richard Abel, who also served as the Secretary to the independent Steering Board for the Public Debate on GM. He left the Commission in November 2003, after two years in post, to take up a new appointment. Commission members wish to express their gratitude to him for the exceptional contribution he made to their work, and to welcome his successor (formerly his deputy), Dr Paul van Heyningen.
44. The running costs of the Commission are met by Government. A number of departments, including departments in the devolved administrations, contribute to the funding. The costs of running the AEBC, including the Commission meetings, publications, external consultancy, research, members' fees and expenses, press office and publicity were £251,000 for 2002/03.

Contact us

45. The Commission welcomes comments and suggestions for future work priorities and best ways of working. If you have read this annual report and would like to be kept in touch with our work but are not yet on our stakeholder list, do get in touch with us. AEBC members can be contacted through the secretariat:

AEBC secretariat
1 Victoria Street
London, SW1H 0ET
Telephone enquiries: 020 7215 6508
Fax: 020 7215 0313
e-mail: aebc@dti.gsi.gov.uk

For press enquiries please contact:
Telephone: 020 7215 3863
Fax: 020 7215 0313
e-mail: pat.wilson@dti.gsi.gov.uk

Annex A

Who we are

Professor Malcolm Grant CBE (Chair)
Provost and President of University College London

Ms Julie Hill MBE (Deputy Chair)
Programme Adviser and former Director of Green Alliance

Professor Michael Banner (until January 2003)
Professor of Moral and Social Theology at King's College London

Ms Anna Bradley
Consumer Affairs Director, Financial Services Authority

Ms Helen Browning OBE
Tenant Farmer, Eastbrook Farm; Founder and Director of Eastbrook Farm Organic Meats Ltd

Dr David Buckeridge (from April 2003)
Business Director of Advanta Seeds, responsible for European and North American operations

Dr David Carmichael
Arable farmer with an interest in non-food crops

Professor Philip Dale
Leader of the Genetic Modification and Biosafety Research Group at the John Innes Centre, Norwich

Dr Ed Dart CBE
Chairman of Plant Bioscience Ltd

Dr Matthew Freeman
Senior Researcher at the Medical Research Council's Laboratory of Molecular Biology, Cambridge

Mr John Gilliland
President of the Ulster Farmers Union; arable farmer with a particular interest in sustainable production systems and the pioneering of non-food crops

Professor Robin Grove-White
Professor of Environment and Society, and Director of the Centre for the Study of Environmental Change, Lancaster University

Dr Rosemary Hails MBE
Ecologist, and Principal Scientific Officer, Centre for Ecology and Hydrology, Oxford and lecturer at St Anne's College Oxford

Ms Judith Hann
Freelance broadcaster and writer who presented Tomorrow's World for 20 years

Ms Chi Chi Iweajunwa
Member of Executive Evaluation Group for NHS Direct and member of Partners Council for NICE (National Institute for Clinical Excellence)

Dr Derek Langslow CBE
Scientist specialising in nature conservation/biodiversity
and former Chief Executive of English Nature

Professor Keekok Lee (from October 2003)
Visiting Chair in Philosophy at the Institute for Environment, Philosophy
and Public Policy at University of Lancaster

Professor Jeff Maxwell OBE
Former Director, Macaulay Land Use Research Institute

Dr Sue Mayer
Executive Director of GeneWatch UK

Professor Ben Mepham (until January 2003)
Director of the Centre for Applied Bioethics at the University of Nottingham
and Executive Director of the Food Ethics Council

Dr Paul Rylott (from April 2003)
Head of BioScience UK, Bayer CropScience

Ms Justine Thornton
Barrister specialising in environmental law at Allen & Overy Solicitors

Dr Roger Turner (until July 2003)
Chief Executive Officer, British Society of Plant Breeders

SECRETARIAT TEAM

Mr Richard Abel (Secretary until November 2003)

Dr Paul van Heyningen (Secretary from November 2003)

Mr Matthew Hughes (January-September 2003)

Mrs Laura McMahon

Miss Emma Knox

Mr Craig Johnson

Mr Pat Wilson OBE (Communications Advisor)

Annex B

List of Commission meetings

We have held six meetings since the publication of our last Annual Report, as follows:

Date	Location	Main subjects covered
11/12 December 2002	Eden Project, Cornwall	Discussion on progress of the public debate. Discussion of liability issues.
27 February 2003	London	Discussion of draft paper on liability issues; the economic impact and liability, and environmental liability. Discussion on responsibility for a new technology. Update on the GM public debate and of work on consumer choice and coexistence.
4 April 2003	London	Discussion on consumer choice and coexistence.
7 May 2003	Manchester	Update on the GM public debate. Discussion of draft report on coexistence and liability.
9/10 July 2003	London	Discussion of draft report on coexistence and liability.
25 September 2003	London	Presentation of Land Management Information System by Dr David Buckeridge. Discussion of draft report on coexistence and liability.

Annex C

Terms of reference

In 1999 the Government reviewed its advisory and regulatory framework on biotechnology. It concluded that a broader approach was needed for strategic issues. The Agriculture and Environment Biotechnology Commission (AEBC) forms part of the new strategic framework.

The Commission will:

- offer strategic advice to Government on biotechnology issues which impact on agriculture and the environment;
- liaise closely with, but not duplicate, the work of the other two bodies which together with the AEBC form the new strategic advisory framework i.e.:
 - *the Human Genetics Commission (HGC)* which will advise on genetic technologies and their impact on humans; and
 - *the Food Standards Agency (FSA)* which will include within its responsibilities all aspects of the safety and use of genetically modified food and animal feed.
- keep under review current and possible future developments in biotechnology with actual or potential implications for agriculture and the environment;
- advise Government on the ethical and social implications arising from these developments and their public acceptability; and
- consider and advise on any specific issues relating to relevant aspects of biotechnology as requested by the Government.

As part of this process the Commission is expected to:

- identify any gaps in the regulatory and advisory framework;
- consider the wider implications of the lessons to be learned from individual cases requiring regulatory decision;
- advise on any changes which should be made to Government guidelines which regulatory bodies are required to follow;
- make recommendations as to changes in the current structure of regulatory and advisory bodies;
- co-ordinate and exchange information with the relevant regulatory and advisory bodies;
- seek to involve and consult stakeholders and the public on a regular basis on the issues which it is considering; and
- operate in accordance with best practice for public bodies with regard to openness, transparency, accessibility, timeliness and exchange of information.

The Commission will:

- in carrying out its work take into account European and global developments;
- nationally, adopt a UK perspective taking appropriate account of legal and other differences between England, Scotland, Wales and Northern Ireland; and
- draw up a work programme.

The Government may also ask the Commission for advice on a particular issue and, if necessary, direct it not to become involved in an area if this could be better handled elsewhere.

- * In the context of the work of the Commission 'Government' comprises the UK Government and the devolved administrations.

Annex D

Membership of the AEBC's working groups

CONSUMER CHOICE

Helen Browning
Dave Carmichael
Rosie Hails (Convenor from April 2003)
Julie Hill
Jeff Maxwell
Roger Turner (Convenor until April 2003))

Original Terms of Reference

The Commission is exploring how biotechnology might affect the mix of farming practices that can co-exist in the UK (conventional, organic and other options such as integrated pest management and conservation grade grains), how compatible these might be, and how any changes to that mix might affect consumers' ability to make choices about food on the basis of how it has been produced as well as on the basis of its nutritional content and safety.

LIABILITY

Phil Dale
Matthew Freeman
John Gilliland
Malcolm Grant
Derek Langslow
Sue Mayer
Justine Thornton (Convenor)
Roger Turner

Original Terms of Reference

The Commission is aware of concern about the adequacy of the existing regime for legal liability when it is applied to genetic modification. The group is:

- *identifying and considering the questions that need to be addressed in any debate on liability (and how they might be debated);*
- *surveying and monitoring existing laws and proposals for reform.*

AD HOC GROUP ON DEFRA BASELINE STUDY

Dave Carmichael
Phil Dale
John Gilliland
Rosie Hails (Convenor)
Derek Langslow

This group represents the AEBC on the research review group for a baseline study commissioned by Defra on impacts of crop and livestock production systems.

Annex E

Code of conduct

PUBLIC SERVICE VALUES

The board of this advisory non-departmental public body must at all times:

- observe the highest standards of **impartiality, integrity and objectivity** in relation to the advice they provide and the management of this public body;
- be **accountable** to Parliament and the public more generally for its activities and for the standard of advice it provides; and
- in accordance with Government policy on **openness, comply** fully with the Code of Practice on Access to Government Information.

The minister of the sponsoring department is answerable to Parliament for the policies and performance of this body, including the policy framework within which it operates.

STANDARDS IN PUBLIC LIFE

All board members must

- follow the Seven Principles of Public Life set out by the Committee on Standards in Public Life (attached to the end of this Code);
- comply with this Code, and ensure they understand their duties, rights and responsibilities, and that they are familiar with the function and role of this body and any relevant statements of Government policy. New board members should consider attending relevant training or induction courses;
- not misuse information gained in the course of their public service for personal gain or for political purpose, nor seek to use the opportunity of public service to promote their private interests or those of connected persons, firms, businesses or other organisations; and
- not hold any paid or high-profile unpaid posts in a political party, and not engage in specific political activities on matters directly affecting the work of this body. When engaging in other political activities, board members should be conscious of their public role and exercise proper discretion. These restrictions do not apply to MPs (in those cases where MPs are eligible to be appointed), to local councillors, or to Peers in relation to their conduct in the House of Lords.

Role of board members

Members of the board have collective responsibility for the operation of this body. They must:

- engage fully in collective consideration of the issues, taking account of the full range of relevant factors, including any guidance issued by the sponsor department or the responsible minister;
- ensure that the Code of Practice on Access to Government Information (including prompt responses to public requests for information) is adhered to; agree an Annual Report; and, where practicable and appropriate, hold at least one meeting a year in public;

- respond appropriately to complaints, if necessary with reference to the sponsor department; and
- ensure that the board does not exceed its powers or functions.

Communications between the board and the minister will generally be through the chair except where the board has agreed that an individual member should act on its behalf. Nevertheless, any board member has the right of access to ministers on any matter which he or she believes raises important issues relating to his or her duties as a board member. In such cases the agreement of the rest of the board should normally be sought.

Individual board members can normally be removed from office by the minister if they fail to perform the duties required of them in line with the standards expected in public office.

The role of the chair

The chair has particular responsibility for providing effective leadership on the issues above. In addition, the chair is responsible for:

- ensuring that the board meets at appropriate intervals, and that the minutes of meetings and any reports to the Secretary of State accurately record the decisions taken and, where appropriate, the views of individual board members;
- representing the views of the board to the general public; and
- ensuring that new board members are briefed on appointment (and their training needs considered), and providing an assessment of their performance, on request, when members are considered for re-appointment to the board or for appointment to the board of some other public body.

Handling conflicts of interests

The purpose of these provisions is to avoid any danger of board members being influenced, or appearing to be influenced, by their private interests in the exercise of their public duties. All board members should therefore declare any personal or business interest which may, or may be perceived (by a reasonable member of the public) to, influence their judgement. This should include, as a minimum, personal direct and indirect pecuniary interests, and should normally also include, such interests of close family members and of people living in the same household¹. The register of interests should be kept up-to-date and be open to the public. A declaration of any interest should also be made at any board meeting if it relates specifically to a particular issue under consideration, for recording in the minutes (whether or not a board member also withdraws from the meeting).

Board members should not participate in the discussion or determination of matters in which they have an interest, and should normally withdraw from the meeting (even if held in public) if:

- their interest is direct and pecuniary; or
- their interest is covered in specific guidance issued by this body or the sponsor department which requires them not to participate and/or to withdraw from the meeting.

¹ Indirect pecuniary interests arise from connections with bodies which have a direct pecuniary interest or from being a business partner of, or being employed by, a person with such an interest. Non-pecuniary interests include those arising from membership of clubs and other organisations. Close family members include personal partners, parents, children (adult and minor), brothers, sisters and the personal partners of any of these.

Personal liability of board members

Legal proceedings by a third party against individual board members of advisory bodies are very exceptional. A board member may be personally liable if he or she makes a fraudulent or negligent statement which results in a loss to a third party; or may commit a breach of confidence under common law or a criminal offence under insider dealing legislation, if he or she misuses information gained through their position. However, the Government has indicated that an individual board member who has acted honestly and in good faith will not have to meet out of his or her own personal resources any personal civil liability which is incurred in the execution or purported execution of his or her board function, save where the person has acted recklessly. Board members who need further advice should consult the sponsor department.

THE SEVEN PRINCIPLES OF PUBLIC LIFE

Selflessness

Holders of public office should take decisions solely in terms of the public interest. They should not do so in order to gain financial or other material benefits for themselves, their family, or their friends.

Integrity

Holders of public office should not place themselves under any financial or other obligation to outside individuals or organisations that might influence them in the performance of their official duties.

Objectivity

In carrying out public business, including making public appointments, awarding contracts, or recommending individuals for rewards and benefits, holders of public office should make choices on merit.

Accountability

Holders of public office are accountable for their decisions and actions to the public and must submit themselves to whatever scrutiny is appropriate to their office.

Openness

Holders of public office should be as open as possible about all the decisions and actions that they take. They should give reasons for their decisions and restrict information only when the wider public interest clearly demands.

Honesty

Holders of public office have a duty to declare any private interests relating to their public duties and to take steps to resolve any conflicts arising in a way that protects the public interests.

Leadership

Holders of public office should promote and support these principles by leadership and example.

Annex F Register of members' interests

Members have declared personal and non-personal interests, that are current or within the last 5 years as follows:

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS	
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
Professor Malcolm Grant CBE (Chair)	University College London	Provost and President; Professor of Law	UK Environment Law Association	Member
	Cambridge University	Pro-Vice-Chancellor and Professor of Land Economy (to 2003)	Royal Town Planning Institute	Honorary Member (and member of Governing Council to 2001)
	Local Government Commission for England	Chair (to 2002)	Royal Institution of Chartered Surveyors	Honorary Member (and member of Governing Council to 2003)
	Encyclopedia of Planning Law	Editor	Environmental Law Foundation	Advisory Board Member
	Encyclopedia of Environmental Law	Consulting Editor	Centre for Property Law University of Reading	Member Board of Advisors
	Chambers of Elizabeth Appleby QC, 4-5 Gray's Inn Square, London	Door Tenant	Ditchley Foundation	Governor; Member of the Council of Management
	Independent Panel on Remuneration of Councillors in London, Association of London Government	Chair	Academy of Learned Societies for the Social Sciences	Academician
	Independent Panel on Members' Allowances, Local Government Association	Chair (to 2001)	London Business School	Member of Council
	Independent Panel on Members' Allowances, Manchester City Council	Chair (to 2003)	Centre for Scientific Enterprise Ltd	Director
	Independent Panel on Members' Allowances, Hampshire County Council	Chair (to 2003)	London Technology Network Ltd	Director
Standards Committee, Greater London Authority	Deputy Chair	Clare College, Cambridge	Emeritus Professorial Fellow	
Ms Julie Hill MBE (Deputy Chair)	Green Alliance	Former Director	Unilever	provide subscription funding to Green Alliance
	Green Alliance	Remuneration	Sainsbury	
	Shanks Group Plc	Remuneration	Tesco	
	GlaxoSmithKline	Spouse holds shares	GlaxoSmithKline No. of other companies	Former Member
			Nuffield Council on Bioethics. Working Party on GM Crops	

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS	
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
			Advisory Committee on Releases into the Environment	Former Member
			Government Science Review Panel	Member
			Innogen Centre, Edinburgh	Member of Advisory Committee
Ms Anna Bradley	Financial Services Authority	Consumer Affairs Director	Defra's Science Advisory Group	Member
			Defra's Horizon Scanning Panel	Chairman
			ESRC commissioning panel for 'Cultures of consumption' research programme	Member
			Royal Society, Science and Society Advisory Group	Member
			Implementation Group for the Sustainable Farming and Foods Strategy	Member
Ms Helen Browning OBE	Eastbrook Farm	Director/Sole trader	Soil Association	Former Council Member
	Manor Farm, East Grafton	Part owner (one third share)	Tenant Farmers Association	Member
	Eastbrook Farm, Organic Meats Ltd	Director/Majority Shareholder	Country Landowners Association	Member
	Eastbrook Farm, Organic Pigs Ltd	Director/Shareholder	Kingshay Farming Trust	Member
	Dairy Crest Ltd	Shareholder	Schumacher Society	Member
	Genus Ltd	Shareholder	Rare Breeds Survival Trust	Member
	Organic Milk Suppliers Co-operative	Shareholder & Director	Royal Agricultural Society of England	Fellow
	Friends Provident	Shareholder	The Farmers Club	Member
	Northern Foods (2002 onwards)	Shareholder	National Federation for Self Employed	Member
	Cranswick Plc (2002 onwards)	Shareholder	FWAG	Member
	Atkins (2002 onwards)	Shareholder	Institute of Directors	Former Member
	Residuary MMB	In receipt of distribution monies as an eligible producer	Sustainable Development Commission	Member
	Meat and Livestock Commission	Commissioner	Amnesty International	Former Member
			Food Ethics Council	Chair and Director
			The Independent Council for Ethical Standards in Food and Agriculture Ltd	Director

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS	
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
	Welsh Organic Foods Ltd	Director		
	BOC Foundation	Former Consultant		
	Policy commission on Food and Farming	Former Consultant		
	Other	Speaking fees to various organisations/groups, mainly on organic farming and marketing		
Dr David Buckeridge	AstraZeneca	Employee	National Trust	Member
	Advanta BV	Seconded member of the board	National Farmers Union	Member
	AstraZeneca	Shareholder		
	Syngenta	Shareholder		
	Abbey National	Shareholder		
	Bradford and Bingley	Shareholder		
Dr David Carmichael	Battle and Pears Ltd	Managing Director	British Beet Research Organisation	Board Member
	Government Industry Forum on non-food uses of crops	Member	Administrative Council of the International Institute for Beet Research	Member
	Farm	Arable Farmer	NFU Biotechnology Working Group	Member
			NFU Sugar Beet Committee	Member
			The Supply Chain Initiative for Modified Arable Crops	NFU representative
			St Barnabas Hospice	Trustee
			Connexions (Lincs)	Non-executive Director
			RSPB	Member
			US Department of State	Attendance on Voluntary Visitors Programme
Professor Phil Dale	John Innes Centre	Leader of Genetic Modification and Biosafety Research Group	University of East Anglia	Honorary Professor of Biological Sciences
	Advisory Committee on Novel Foods and Processes	Deputy Chairman	Society for Experimental Biology	Member
	Advisory Committee on Releases to the Environment	Former Member	Institute of Biology	Fellow
			Institute of Biology Agricultural Sciences Committee	Former Member

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS	
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
	EU	Occasional adviser	Genetical Society	Member
	Defra (DETR)	Former Consultant Adviser	International Association for Plant Tissue Culture and Biotechnology	Member
	UNIDO	Occasional adviser	European Association of Plant Breeders	Member
	UNEP	Occasional adviser	BBSRC/NERC Steering Committee for the Initiative on Gene flow in plants and microorganisms	Member
	OECD	Occasional adviser	Defra Horizon scanning research programme advisory panel	Former Member
			Steering Committee for a pan-European research programme supported by the European Science Foundation entitled "Assessment of the Impacts of Genetically Modified Plants"	Member
			BBSRC Defra EU	Funding for research
			Property purchaser	Advisor on GM Biosafety
			US Department of State	Attendance on Voluntary Visitors Programme
			Rockerfeller Foundation maize biotechnology research programme	Advisory Committee
Dr Ed Dart CBE	Plant Bioscience Ltd	Chairman	UK Government Foresight Panel on Agriculture, Horticulture and Forestry	Former Chairman
	AstraZeneca	Shareholder	UK Advisory Committee on Genetic Manipulation	Former Member
	Zeneca	Former R & D Director of Zeneca Seeds	BBSRC Council	Former Member
	Syngenta (formerly Zeneca)	Pensioner	Syngenta	Former Shareholder
	Norwich Research Park	Former Chief Executive		
	AdProTech Ltd	Former Chief Executive Officer		
Dr Matthew Freeman	MRC - Laboratory of Molecular Biology	Senior Researcher	Committee of Genetics Society	Member
	Journal of Developmental Biology	Editor	Executive Committee of Save British Science Society	Member

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS	
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
			British Society for Developmental Biology	Member
			British Society for Cell Biology European Molecular Biology Organisation (EMBO)	Member
			EMBO Science and Society Committee	Member
			MRC Advisory Board	Member
			Company of Biologists	Board Member
			British Society of Developmental Biology	Chairman-elect
			Canadian NSERC Cambridge Commonwealth Trust Trinity College MRC EU EMBO Human Frontiers Science Program	Research funding
Mr John Gilliland	Brook Hall Estate	Managing Partner	British Biogen	Member
	Rural Generation Ltd	Director and Chairman	RNLI Londonderry Branch	Member
	Ulster Farmers Union	President	EU DG Agricultural Advisory Committees on Energy and Industrial Crops	UK Alternate Representative
	NI Authority for Energy Regulation	Director	Ulster Farmers Union Central Seeds and Cereals Committee	Past Chairman
	NI Economic Development Forum	Member	NI Farm Quality Assured Cereals Scheme	Past Chairman
	Londonderry Port and Harbour Authority	Commissioner	Rural Support	Director & Chairman
			Home Grown Cereal Authority	Former Director
			NFU Mutual Charitable Trust	Director
			Action Renewables	Director
Professor Robin Grove-White	Lancaster University	Professor of Environment and Society	Green Alliance	Executive Committee Member
	Greenpeace UK	Board Member	Lancaster University	Former Director of the Centre for the Study of Environmental Change

MEMBER	PERSONAL INTERESTS (i.e. those involving payment to the member personally)		NON-PERSONAL INTERESTS		
	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest	
Dr Rosemary Hails MBE	Natural Environment Research Council	Principal Scientific Officer and Project Leader in the Quantitative Ecology Group, Centre for Ecology and Hydrology, Oxford	Zeneca	Co-supervision of post-doctoral scientist on a grant 50% funded (ended in 1999)	
	St Anne's College, Oxford	Fellow in Quantitative Methods	British Ecological Society	Member	
	Defra (via FRCA)		Husband employed on implementing/policing countryside stewardship schemes for farmers	Royal Entomological Society	Fellow
				Ecological Society of America	Member
				Society of Invertebrate Pathology	Member
				BBRSC/NERC	Grant under the gene flow initiative
				US Department of State	Attendance on Voluntary Visitors Programme
				Institute of Biology Environment Committee	Member
				Royal Entomological Society Fellowship subcommittee	Member
				Oxford Brookes University	Visiting Research Fellow
Agriculture and Forest Entomology	Board of Editors				
Academy of Finland Evaluation Panel for the research programme on Environmental, Societal and Health Effects of Genetically Modified Organisms	Member				
Defra	Grant for research (January 2003-December 2005)				
Ms Judith Hann	Farm	Co-owner	Waste Watch	Vice President	
	The Media Advantage	Runs her own media Training company			
	BBC	Presenter of BBC1 "Tomorrows' World" for 20 years – until mid-90s Freelance writer – author of 7 books			
Ms Chi Chi Iweajunwa			National Institute of Clinical Excellence	Member of Partners Council	

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	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
			NHS Direct Department of Health NHS Special Authority London Probation Board Jazz House	Member of executive evaluation group Member of appraisal panel Member Trustee
Dr Derek Langslow CBE	British Waterways Harwich Haven Authority Rail Passengers' Committee for Eastern England National Rail Passengers' Council Defra Heritage Lottery Fund	Director (non-executive) Director (non-executive) Chairman Member Consultant Trustee	Independent Transport Commission	Member
Professor Keekok Lee	Lancaster University Manchester University	Visiting Chair in Philosophy, Institute for Environment, Philosophy and Public Policy Reader in Philosophy and Director of the Centre for Philosophy and the Environment		
Professor Jeff Maxwell OBE	Macaulay Land Use Research Institute Macaulay Research and Consultancy Services Ltd Macaulay Land Use Research Institute	Director (Retired October 2000) Chief Executive (Retired October 2000) Consultant on Agriculture and the Environment	Macaulay Development Trust National Trust for Scotland Scottish Executive – Environment and Rural Affairs Department Agriculture and Environment Working Group Tenant Farming Forum (Scotland)	Trustee (Resigned October 2000) Council Member serving on three committees Chairman (Committee completed work June 2002) Chairman
Dr Sue Mayer	GeneWatch UK Greenpeace UK	Executive Director Board Member	Vetwork UK Green Alliance Five Year Freeze Campaign	Trustee and Former Chair Member Steering Committee

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	Name of Organisation	Nature of Interest	Name of Organisation	Nature of Interest
			HSE Genetically Modified Organisms (Contained Use) Technical Committee	Member
			Royal College of Veterinary Surgeons	Member
			Lancaster University	Honorary Research Fellow at the Institute for Environment, Philosophy and Public Policy
			Friends of the Earth The Guardian Unilever RSPB Action Aid Greenpeace Consumers' Association WHO	Work undertaken by GeneWatch UK
			Derbyshire Wildlife Trust	Member
			Friends of the Earth	Member
			High Peak Badger Group	Member
			Amnesty International	Member
			RSPB	Member
Dr Paul Rylott	Bayer CropScience Dalgety plc Syngen International plc	Head of BioScience UK Pension Fund Member Shareholder	Agriculture Biotechnology Council Supply Chain Initiative on Modified Agricultural Crops British Society of Plant Breeders	Chairman Industry Representative Bayer representative
Ms Justine Thornton	Allen & Overy	Barrister and Senior Associate	Royal Geographic Society	Fellow



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