

## **Professor Mike Gale, FRS**

A UK national research scientist with expertise in general, comparative and molecular genetics in plants. A special interest in cereals, particularly wheat, barley, pearl millet, foxtail millet, finger millet and rice. Special areas of study: plant height in wheat, pre-harvest sprouting in wheat, molecular maps in cereals, comparative maps in cereals. Also experience of scientific administration as a director of the John Innes Centre and some experience of the CGIAR and its institutes.

### *Addresses and contact details*

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### *Qualifications*

BSc(Hons.) in Genetics, Birmingham University, UK (1965)  
PhD on 'Cytogenetics in the grasses', University College of Wales, Aberystwyth, UK (1969)

### *Posts held*

Associate Research Director, John Innes Centre, Norwich (since 1994, Director 1999)

Head, Cambridge Laboratory at Norwich (1992-1994)

Head, Cereals Research Department, Cambridge Laboratory at Cambridge and Norwich (1988-1992)

Sabbatical period at CSIRO, Canberra, Australia (1986)

Research scientist at the Plant Breeding Institute, Cambridge (1968-1988)

### *CGIAR and related experience*

Chair, Vth External Programme Management Review Panel, International Plant Genetic Resources Institute, Rome (2002-2003)

Consultant to iSC on Genomics and Abiotic Stress Research in the CGIAR (2002)

Consultant, Vth External Programme Management Review, International Institute for Tropical Agriculture, Ibadan, Nigeria, (2001)

Advisory Committee to the Central Advisory Services on Intellectual Property for the CGIAR, ISNAR, The Hague, Member (1999-present) Chair (2000-2001)

Member, Board of Trustees of International Rice Research Institute, Las Banos, Philippines (2000-2005)

Chair, TAC Commissioned Review on Plant Breeding Methodologies, IRRI Sub-Panel (2000)

Member, External Programme and Management Review Panel for the International Rice Research Institute, Philippines (1997-98)

Research collaborations: pearl millet marker-aided breeding, ICRISAT (1990 – present); cassava microsatellite markers, CIAT (1999-2000); molecular characterisation of rice germplasm for defining core collections, IRRI (1994-2000); analysis of pleiotropic effects of dwarfing genes in breeding, CIMMYT (1980s)

*Honours and Prizes*

John Innes Professor, University of East Anglia (1999-present)  
Foreign Fellow of the Chinese Academy of Engineering (elected 1998)  
Recipient of the Royal Society Darwin Medal (1998)  
Recipient of the Rank Prize for Nutrition (1997)  
Fellow of the Royal Society (elected 1996)  
Member of the Academic Committee of the Ministerial Key Laboratory of Crop Germplasm Resources and Biotechnology, Institute of Crop Germplasm Resources, China (1996-present)  
Royal Agricultural Society of England Research Medal (1994)  
Honorary Research Professor, Institute of Crop Germplasm Resources, Academia Sinica, Beijing, China (elected 1992-present)  
Advisor, Plant Cell and Chromosome Engineering, State Key Laboratory, Institute of Genetics, Beijing (1992-present)

*Other relevant international experience*

Member, CNRS Review Panel, CIRAD-BIOTROP Laboratory, Montpellier (2003)  
Member, First International Rice Roundtable, Beijing (2002)  
Member, Scientific Advisory Committee for Rockefeller Foundation's Program on Biotechnology, Breeding, and Seed Systems for African Crops (2002-)  
Advisor, International Rice Functional Genomics Working Group (2000-)  
Scientific Advisory Committee, Avestha Gengraine Technologies PVT. Ltd, Bangalore, India 2002-present)  
Member, International Advisory Board for the 6<sup>th</sup> Symposium Rice Molecular Biology, Shanghai (1998-2000)  
Member, Scientific Review Panel of VIB, Gent, Belgium (Sep 1999)  
Member, Scientific Advisory Committee for the Rockefeller Foundation Rice Biotechnology Programme, (1989-1999)  
Member, USDA Review Panel for Rice Sequencing (1999)  
Member, Max-Planck Institut fur Chemische Okologie, Jena, Germany, Fachbeirat (Advisory Board) (1997-present)  
Founder member and Co-ordinator, International Grass Genome Initiative (1994-present)  
Consultant on barley and quinoa in Bolivia for the International Atomic Energy Agency, Vienna, (1987-1995)  
Founder member, International Organising Committee, Plant and Animal Genome Conferences held every year in San Diego (1992-present)

Consultant on molecular mapping in *Hevea* for the Rubber Research Institute of Malaysia, Kuala Lumpur (1987-1993)  
Member, Review Panel, CIRAD-BIOTROP Laboratory, Montpellier (1992)

*Other relevant UK experience*

Member, Advisory Board of the ICENE Seedcorn Fund (2002-present)  
Consultant, Rank Prize Funds Joint Millennium Meeting (1999)  
Director and consultant, Plant Bioscience Ltd., UK (1998-present)  
Member, Nuffield Council on Bioethics Working Party on the Genetic Modification of Plants (1997- 1999)  
Member, Royal Commission on Environmental Pollution GMO Working Group (1998-2000)  
Member, Health and Safety Executive Advisory Committee on Genetic Manipulation (1996-2000)  
Member, Scientific Advisory Board, School of Biological Sciences, Reading University (1992-present)  
Member, Scientific Advisory Board, Overseas Development Administration Plant Breeding and Physiology Management Group (1990-1995)  
Member, Novel Crops and Livestock Enterprise Review Group, MAFF (1987-1988)

*Patents*

Flintham JE, Gale MD, Holdsworth MJ, (1998) Pre-Harvest Sprouting PCT/GB98/02835  
Bailey PC, Flintham JE, Gale MD, Holdsworth MJ, Jones HD, Peters N, McKibbin RS, (1997) Pre-Harvest Sprouting in Wheat, GB 9720060.4  
Wiseman G, Bryan GJ, Gale MD (1996) Detection means (Pasta) 615679.9

*Editorial*

Comparative and Functional Genomics, Section Editor (Cereals), (2000- present)  
Wheat Information Service International, International Editorial Committee (1992- present)  
Journal of Agricultural Science, Editorial Board (1993-2001)  
Cereal Research Communication, Editor (1993-present)  
Heredity Editorial Board (1979-1982)

*Publications*

Over 200 chapters in books and papers in refereed journals. Mostly on the general genetics of wheat, semi-dwarfism and pre-harvest sprouting in wheat, molecular marker technology, molecular maps in wheat and the millets, and comparative genomics in the grasses