MEMBERS OF THE EXPERT PANEL ON THE FUTURE OF FOOD BIOTECHNOLOGY

Spencer C. H. Barrett, Ph.D., FRSC, Professor of Botany, University of Toronto
Dr. Barrett holds a doctorate in Botany from the University of California, Berkeley (1977) and was elected a Fellow of the Royal Society of Canada in 1998. His general research interests include plant evolutionary biology, evolutionary ecology and genetics, conservation biology, and plants and human affairs. His specific research has focused on such topics as plant reproduction, mating systems, biology of invading plants, and colonization genetics. He is the author of over 180 scientific publications and is co-editor of *Floral Biology: Studies on Floral Evolution in Animal-pollinated Plants* (1996).

Joyce L. Beare-Rogers, CM, Ph.D., FRSC, Ottawa, Ontario
Dr. Beare-Rogers received her doctorate in Lipid Biochemistry from Carleton University and joined the federal government’s Food and Drug Directorate (now the Health Products and Food Branch) in 1956, where she worked until her retirement in 1992. Dr. Beare-Rogers is an internationally recognized authority in the areas of nutrition, lipids, fatty acids and dietary oils and was the first Canadian, and the first woman, to hold the office of President of the American Oil Chemists’ Society. She was also President of the Canadian Society for Nutritional Sciences and is a Fellow of the Royal Society of Canada (elected 1989) and the American Institute of Nutrition.

Conrad G. Brunk, Ph.D., Academic Dean and Professor of Philosophy, Conrad Grebel College, University of Waterloo (*Panel Co-Chair*)
Dr. Brunk was awarded a doctorate in Philosophy from Northwestern University in 1974 and has held a faculty position at the University of Waterloo since 1976. His areas of specialization include applied and professional ethics, including environmental and bio-medical ethics, and conflict resolution. In addition to scholarly publications, including the book *Value Assumptions in Risk Assessment* (1991), he is well known for his reports on risk management frameworks for animal health and food trade. He served as Chair of the Royal Society of Canada’s expert panel on the future of Health Canada’s non-human primate colony in 1996.

Timothy Allen Caulfield, LL.M., Associate Professor, Faculty of Law and Faculty of Medicine and Dentistry, University of Alberta
Mr. Caulfield received his LL.M. degree from Dalhousie University (1993) and has been Research Director of the Health Law Institute at the University of Alberta since 1993. He is the co-editor of *Legal Rights and Human Genetic Material* (1996), *Canadian Health Law and Policy* (1999), and *The Commercialization of Genetic Research: Ethical, Legal and Policy Issues* (1999), and the author of numerous publications in scholarly journals, including “Regulating the Genetic Revolution” (1999).
Brian E. Ellis, Ph.D., Associate Director, Biotechnology Laboratory, Professor, Faculty of Agricultural Sciences and the Biotechnology Laboratory, University of British Columbia (Panel Co-Chair)

Dr. Ellis received his doctorate in Plant Biochemistry at the University of British Columbia in 1969 and was Head of UBC’s Department of Plant Science from 1989 to 1999); his main interests are in the area of plant metabolism, especially lignin biosynthesis. His current projects include biochemistry of metabolic enzymes, signalling mechanisms whereby plants sense and respond to environmental changes, oxidative stress, and the genetic engineering of crop and forest plants. He teaches sustainable agriculture and professional communication as well as plant breeding and plant–microbe interactions.

Marc G. Fortin, Ph.D., Associate Professor and Chair, Department of Plant Science, McGill University

Dr. Fortin received his doctorate in Plant Molecular Biology from McGill University in 1987 and did post-doctoral work at the University of Chicago and the University of California at Davis. He has been at McGill as faculty member since 1990. His research focuses on applying molecular genetics approaches to better understand interactions between plants and microbes and was one of the initiators of the use of DNA markers for plant improvement. He has spearheaded the organization of two large inter-university research networks focusing on understanding plant productivity, and is an advisor to several provincial and national organizations dedicated to research in plant science.

Antony J. Ham Pong, M.B., F.R.C.P.(C) Paediatrics, Consultant in Allergy and Clinical Immunology, Ottawa, Ontario

Dr. Ham Pong, who has specialist training in Immunology and Allergy and in Paediatrics, has a clinical practice, is a lecturer in Paediatrics and an instructor for the Allergy/Immunology course at the University of Ottawa. He is a medical advisor to the Anaphylaxis Network of Canada, co-author of Anaphylaxis: A Handbook for Schools (1996), a frequent radio and TV commentator and guest lecturer on allergy issues. He has served on several task forces on Food Allergies and Anaphylaxis for Health Canada and other organizations. His professional publications include the recent co-authored study, Common Allergenic Foods and their Labelling in Canada — A Review (1999).

Jeffrey A. Hutchings, Ph.D., Associate Professor of Biology, Dalhousie University

Dr. Hutchings holds a doctorate in Evolutionary Ecology from Memorial University of Newfoundland (1991). Following research fellowships at Edinburgh University and the Department of Fisheries and Oceans (St. John’s, Newfoundland), Dr. Hutchings has focused his work on the ecology, reproductive behaviour, genetics and population biology of marine and freshwater fishes. Among his 60 scientific publications, approximately one-half address environmental and genetic aspects of fish life histories, notably those of Atlantic salmon and other salmonids, and one third pertain to the collapse and recovery of Atlantic cod. An Associate Editor of Canadian Journal of Fisheries and Aquatic Sciences and Transactions of the American Fisheries Society, he has recently been appointed to the...
Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

John J. Kennelly, PhD., Professor and Chair, Department of Agricultural, Food and Nutritional Science, University of Alberta
Dr. Kennelly holds a doctorate in Animal Nutrition from the University of Alberta (1980) and has been a Professor at the University of Alberta since 1987. He is a member of the Board of Directors of the National Institute of Nutrition and he has served as a member of the Alberta Science and Research Authority Biotech Task Force. In previous professional service, Dr. Kennelly was a member of the NSERC Animal Biology Grant Selection Committee for three years and Chair for one. He has also served as a member of the Editorial Board of *Animal Science* and was Chair of the American Dairy Science Association of Milk Synthesis Committee. Dr. Kennelly leads a research group at the University of Alberta that focuses on his primary scientific interest in nutrition and lactation physiology. Key areas of study are the nutritional and genetic factors that influence the biological efficiency of milk synthesis and its quality as a human food. Publications include over 120 refereed scientific papers, book chapters, conference proceedings as well as numerous extension articles.

Jeremy N. McNeil, Ph.D., FRSC, Professor of Biology, Université Laval
Dr. McNeil received his Ph.D. in Entomology and Ecology at North Carolina State University in 1972 and since then has been a professor in the Biology Department at Université Laval. His research is in chemical and behavioural ecology, looking for ecologically and socially acceptable alternatives to conventional pesticides. He is the author of over 130 scientific publications and serves on a variety of national and international scientific committees. He is also active in the public awareness of science, speaking to more than 2000 children annually. He was elected to the Royal Society of Canada in 1999.

Leonard Ritter, Ph.D., Executive Director, Canadian Network of Toxicology Centres and Professor and Associate Chair, Department of Environmental Biology, University of Guelph
Dr. Ritter holds a doctorate in Biochemistry from Queen’s University (1977) and has been a professor at the University of Guelph since 1993. He is the founding Executive Director of the Canadian Network of Toxicology Centres, based at the university, which involves the coordination of a national, multi-disciplinary toxicology research program. From 1977 to 1993, he worked in various positions at the Health Protection Branch of Health Canada, with responsibilities for the regulation of pesticides and veterinary drugs. He has publications, technical reports or responsibilities on international bodies in the areas of pesticides residues in foods, pesticides exposure and cancer, persistent organic pollutants, food additives, endocrine modulating substances, and the use of hormones in food production.
Karin M. Wittenberg, Ph.D., Professor and Head, Department of Animal Science, University of Manitoba

Dr. Wittenberg has a doctorate in Ruminant Nutrition from the University of Manitoba (1985), where she is now a professor and currently serves as Head of the Department of Animal Science and the Director of the Ruminant Research Unit. She was an invited member (1995–99) of the Committee on Animal Nutrition of the US National Research Council, including its Biotechnology Advisory Council on Microbial Products as Livestock Feed, and for 10 years a member of the Expert Committee on Animal Nutrition of the Canadian Agricultural Services Coordinating Committee. Her research is in the areas of forage utilization, harvest and post-harvest practices, microbial processes in forage, and the use of forage additives; among her publications are a co-authored book, *The Role of Chromium in Animal Nutrition*, and a review article on “the role of additives in hay production.”

R. Campbell Wyndham, Ph.D., Professor and Chair, Department of Biology, Carleton University

Dr. Wyndham received his doctorate in Biology from the University of Calgary in 1982 and has been a member of both the Institute of Biochemistry and the Institute of Biology at Carleton since 1987. He specializes in studies of microbial ecology, including the ecology and genetics of pollutant-degrading bacteria (particularly in wastewater), and also is increasingly active in applying molecular techniques to understanding how genetically modified microorganisms behave in agricultural ecosystems. In the course of studying the ecological risks of biotechnology, his laboratory is developing rapid and simple soil microcosm and DNA-detection protocols to assess gene transfer frequencies. For the past 10 years, he has contributed expert advice to federal departments on the new substances notification regulations for products of biotechnology under the Canadian Environmental Protection Act.

Rickey Yoshio Yada, Ph.D., Professor and Assistant Vice President Research, Agri-Food Programs, University of Guelph

Dr. Yada was awarded a doctorate from the Department of Food Science at the University of British Columbia in 1984. He has been a faculty member at Guelph since that time, has served as Chair of the Department of Food Science, and currently is the Assistant Vice President Research, Agri-Food Programs. His primary research focus is on structure–function relations of food-related proteins, and he has specialized in the study of potatoes. He has been a member or chair of numerous NSERC research awards panels and committees and is currently one of the Life Science Group Chairs for NSERC, and a member of the Committee on Research Grants. He was Editor-in-Chief of *Food Research International Journal* from 1992 to 1998 and now is the North American Editor for *Trends in Food Science and Technology*. He is the author of over 100 refereed journal publications and the co-editor of two major books in his field, *Functional Properties of Food Components* (1998) and *Protein Structure–Function Relationships in Food* (1994).