

Yoriko Kawaguchi

Minister of the Environment, Japan

Yoriko Kawaguchi has served as Minister of the Environment since January 2001, succeeding her appointment as Minister of State and Director-General of the Environment Agency in July 2000. Aside from her cabinet position, she serves as a member of the Trilateral Commission and a special member of the Japan Association of Corporate Executives. Prior to her appointment to the cabinet, she was a managing director of Suntory Ltd. since 1993, responsible for customer relations and environment. At that time she was also serving on Japanese Government advisory boards, namely the Regulatory Reform Committee, the Central Council for Education, and the University Council. She was also on the board of directors of the Japan Center for International Exchange and on the advisory committee of the Center for Global Partnership of the Japan Foundation. Before joining Suntory Ltd., she worked in the Ministry of International Trade and Industry (MITI) of the Japanese Government. Her past assignments for MITI included Director-General of the Economic Cooperation Department and Deputy Director-General for Global Environmental Affairs. She also had worked for the World Bank as an economist and for the Embassy of Japan in the United States as Minister. B.A. in International Relations, University of Tokyo. M. Phil. in Economics, Yale University.

Masaru Hashimoto

Governor of Ibaraki Prefecture, Japan

1969 Graduated from the Department of Law, University of Tokyo; the Ministry of Home Affairs. Director of Document and Educational Affairs, Regional, Financial Divisions of the Fukui Prefectural Office; General-Director of General Affairs Department of the Yamanashi Prefectural Office. Director of the Disaster Prevention Coordination Division, Disaster Prevention Bureau, Agency of National Land; Director of the Dangerous Objects Regulation and Fire Defense Divisions, Fire Defense Agency, Ministry of Home Affairs; Director of the First Public Enterprise Division, Local Finance Bureau, Ministry of Home Affairs. 1993 elected as Governor of Ibaraki Prefecture and now in his third term of office.

Hiroshi Hase

Member of the House of Representatives, Japan

1984 graduated from the Department of Japanese Literature, Senshu University. 1984 Teacher for Japanese Literature at Seiryu High School. Selected and competed as Wrestler in Los Angeles Olympics, Summer, 1984. 1985 Professional Wrestler and Writer (member of the Japanese Literature Climate Academy). 1995 Elected as Member of the House of Councilors. 2000 Elected as Member of the House of Representatives. Chairman of the Subcommittee of Chemical Substances, Liberal Democratic Party, Japan.

Shuichi Kato

Member of the House of Councilors, Japan

1981 Ph.D., Environmental Planning, Graduate School of Earth Environmental Science, Hokkaido University. Associate Assistant at Kitami Engineering College; Deputy Director for Research Investigation Department; Takugin Sogo Inc; Professor of Earth Environmental Economics at Otaru University of Commerce. 1995 Elected as Member of the House of Councilors. Member of GLOBE, Member of the Executive Committee for GEA, Bureau Chief of PAPRE (nonpartisan) and Bureau Chief of the Secretariat in charge of the Eco-Japan project of the New Komeito.

* * *

Bo Jansson

Professor, Institute of Applied Environmental Research, Stockholm University, Sweden

Bo Jansson is a professor of chemical environmental analysis at Stockholm University, Sweden. Professor Jansson has since the early 1970's been working with the identification of persistent organic compounds in the environment, and the development of methods for the chemical analysis of these substances. He is today mainly acting as a scientific advisor to international organisations, such as UNEP, WHO, Commission of the European Union, European Environment Agency and International Council for Exploration of the Seas. The co-operation with national and local authorities is also important.

Kazuhiko Adachi

Director, Environmental Health and Safety Division, Environmental Policy Bureau, Ministry of the Environment, Government of Japan

1979 graduated from Tokyo University Medical School and in the same year, entered the Ministry of Health and Welfare. 1985 Deputy Director of the Tuberculosis and Intractable Disease Division, Health Service Bureau, Ministry of Health and Welfare. The Japanese Embassy in the Philippines; the Health Policy Bureau, the Health Service Bureau, the Health and Welfare Bureau for the Elderly, and the Minister's Secretariat, Ministry of Health and Welfare. 1994 Director-General of the Health and Environmental Department, Kagoshima Prefectural Government; Director for Radiation Protection Division, Nuclear Safety Bureau, Agency of Science and Technology; Chief Development Staff for the Planning Department, National Space Development Agency. July 2001 Director of the Environmental Health and Safety Division, Environmental Policy Bureau, Ministry of Environment.

Shinsuke Tanabe

Professor, Center for Marine Environmental Studies, Ehime University, Japan

1975 Graduated Ehime University, Graduate School of Agriculture. 1977 Assistant Professor, Faculty of Agriculture, Ehime University. 1985 Awarded Ph.D. Nagoya University. 1987 Associate Professor, Faculty of Agriculture, Ehime University. 1995 Professor, Faculty of Agriculture, Ehime University. 1999 Professor, Center for Marine Environmental Studies, Ehime University. 1985 Okada Prize from The Oceanographical Society of Japan. 1999 Nissan Science Prize from Nissan Science Foundation. 2000 Citation Classic Awards in Japan from ISI Thomson Scientific. His current research efforts are aimed at understanding global contamination of endocrine disrupters and their toxic effects to humans and wildlife.

Chisato Mori

Professor, Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University, Japan

1984-1992 Research Associate, Department of Anatomy, Faculty of Medicine, Kyoto University, Kyoto, Japan. 1990-1992 Visiting Associate, Gamete Biology Section, LRDT, NIEHS/NIH, NC, U.S.A. 1992-2000 Associate Professor, Department of Anatomy and Developmental Biology, Faculty of Medicine, Kyoto University, Kyoto, Japan. 2000-2001 Professor, Department of Anatomy and Cell Biology, School of Medicine, Chiba University, Japan. 2001- Professor, Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University, Japan.

Hirofumi Yokota

Kurume Laboratory, Chemicals Evaluation and Research Institute (CERI), Japan

1991-1993 Hiroshima University Graduate School of Biosphere Science, master's course. 1998-2001 Kyushu University Graduate School of Bioresources and Bioenvironmental Science, doctorate course. 1993- present Chemicals Evaluation and Research Institute, Japan (CERI).

Hiroaki Aoyama

Chief, Laboratory of Reproductive Toxicology, Institute of Environmental Toxicology, Japan

1978 Graduated from Nagoya University (Major: Animal Genetics). 1993 Ph.D. (Graduate School of Nagoya University). Received an Annual award from the Japanese Teratology Society. August, 1994- Visiting Fellow at National Institute of Environmental. March, 1997 Health Sciences (NIEHS, Laboratory of Experimental Pathology). At present, Chief, Laboratory of Reproductive Toxicology, Toxicology Division I, Institute of Environmental Toxicology.

Akihiro Kondo

Senior Scientist, Biotechnology Research Laboratory, Takara Shuzo Co., Ltd., Japan

1980 B.Sc., Department of Agricultural Chemistry, Gifu University. 1982 M.Sc., Department of Agricultural Chemistry, Gifu University. 1994 Ph.D., The United Graduate School of Agricultural Sciences, Gifu University. 1986-1989 Research Fellow, Faculty of Science, Osaka University. 1994-1995 Visiting Scientist, Cytel, USA. Holds current position since 1995.

Koji Arizono

Professor, Faculty of Environmental and Symbiotic Sciences, Prefectural University of Kumamoto, Japan

March 1977, Graduated from Daiichi college of Pharmaceutical Sciences. January 1986, Acquired the Doctor Degree of Pharmaceutical Sciences at Kyusyu University. At Nagasaki University: April 1979 Research Associate, Faculty of Pharmaceutical Sciences; June 1985 Assistant Professor; March 1993 Associate Professor; October 1997 Associate Professor, Faculty of Environmental Studies. At Prefectural University of Kumamoto: April 1999 Professor, Faculty of Environmental and Symbiotic Sciences, up to know.

Masatoshi Morita

Executive Acting Director, National Institute for, Environmental Studies (NIES), Japan

Graduated in 1967; Tokyo University. Ph. D.(Chemistry) 1972; Graduate School, Tokyo University. Tokyo Metropolitan Institute for Public Health (1972-1978). National Institute for Environmental Studies (1978- present); Senior Scientist 1978-1980, Section Head 1980-1988, Division Director 1988-1996, Executive Director 1996-present. Visiting Professor, Tokyo University, Medical School (1980- present). IUPAC member 1988-1997. Japan Society of Environmental Chemistry, President 1990~. Japan Society of Endocrine Disrupting Chemicals, Deputy President 1998~.

Yoshino Oishi

Photo Journalist, Japan

As a freelance photojournalist, she has been reporting the destructive realities caused by war to the human and environment. She started working as a freelance photojournalist soon after graduating from the Department of Photography, Nihon University College of Art in 1966. She received various awards including Japan Professional Photographers Society Annual Award "People Telling None" in 1982, Japan Professional Photographers Society Annual Award for "Night and Mist, Now" and 150 Years of Photography Award in 1989, Kodansya Publishing Culture Award and Asia and African Award in 1990, the Minister of Education Newcomers' Award, Japan Provincial Nomenclatural Institution Award (Local Culture Award) and the JCJ encouragement award for "Cambodian Hardship and Reincarnation" in 1994, Child Welfare Culture Award (Grand Prize) for "Exalting Spirit - After a Long-lasting War" in 1998, and the 20th Ken Domon's Award for "Vietnam - the Dignified" in 2001.

Takeshi Yoro

Professor, Graduate School of Medical Science, Kitasato University, Japan

He graduated from School of Medicine, the University of Tokyo, Japan in 1962. He completed a doctor's course in experimental medicine at the University of Tokyo and received his M.D.. After a year of internship, he entered the laboratory of anatomy in the university and involved in collecting specimens and data. During the work at the laboratory, he contemplated images, languages, mathematics, and concept of time as phenomena related to activities of the brain, and focused on human mental activities and intracerebral activities. He expanded this idea to the fields of literature and philosophy by studying on linguistic expression including an analysis of writings written by novelists. He also wrote essays with a unique point of view on the human body, which enjoyed popularity. He received the Suntory Prize for Social Sciences and Humanities for "How to Understand Your Body" in 1989. He became the chairman of University of Tokyo Press in 1991. He left the University of Tokyo in 1995 before his retirement age. Currently he is actively working on various writings and participating in TV programs. His talk has earned a reputation as a very comprehensive interpretation of the fields of science. He is the author of "How to Understand Mankind", "Processes in the Brain", and "Cool Brain", "Cerebralism", and the co-author of "Central Nervous System, a Slave of Peripheral Nerves" and "The Day When Dinosaurs Flew".

Ichiro Kono

Professor of Sports Medicine, University of Tsukuba, Institute of Health & Sport Sciences, Japan

Graduated from Tokyo Medical & Dental University, School of Medicine in 1973. Teaching Sports Medicine as a Professor of Sports Medicine, University of Tsukuba, Institute of Health & Sport Sciences from 1999. Acting as a Board Member of the Japanese Committee, from 2001. Appointed as a Chairman of the Japan Anti-Doping Agency from 2001. Since 2000, member of the Standard & Harmonization Committee of the World Anti-Doping Agency. Team Physician of the Japanese Delegation for Seoul Olympics in 1998, Barcelona Olympics in 1992 and Atlanta Olympics in 1996.

Kazuyuki Aihara

Professor, Department of Complexity Science and Engineering and Department of Mathematical Engineering and Information Physics, University of Tokyo, Japan

Kazuyuki Aihara received the B.E. degree in electrical engineering in 1977 and the Ph.D. degree in electronic engineering 1982 from the University of Tokyo, Tokyo, Japan. Currently, he is Professor in Department of Complexity Science and Engineering and Department of Mathematical Engineering and Information Physics, the University of Tokyo. He is also Chairman of the Biochaos Research Committee in the Japan Electronics and Information Technology Industries Association. His research interests include mathematical modeling of biological systems, parallel distributed processing with chaotic neural networks, and time series analysis of chaotic data.

Masashi Yatabe

Commentator, News Commentators Division, Japan Broadcasting Corporation (NHK), Japan

Born on March 14, 1950. Graduated from Chemistry Department, School of Medical Technology, Kitasato University, Japan in 1973. Joined NHK in April 1973, he worked as a program director for science programs. He has been in the current position, a commentator for science programs concerning life sciences, medical sciences, environmental issues, nuclear energy, and science technologies since June 1997. Programs he engaged in producing include NHK Special "Life - Four billion years of Journey, Volume III Fish Leaving for a Land" (broadcasted in June, 1994), "Volume IX Where does the human go?" (broadcasted in February, 1995), and a NHK Featuring Program "Global Contamination, Volume II Sea quietly warns us" (broadcasted in March, 1989) He co-authored several books including "Global Contamination Volume II - Sea quietly warns us" (NHK Publications), "Brain death - Choosing between life and death - Does Japan enable heart transplant?" (NHK Publications), "Life - Four billion years of Journey, Volume II Fish Leaving for a Land" (NHK Publications), "Life - Four billion years of Journey, Volume V Where does the human go?" (NHK Publications).

Soichiro Iwao

Director-General, Environmental Health Department, Environmental Policy Bureau, Ministry of the Environment, Government of Japan

1973 graduated from Keio University Medical School. 1978 studied at the University of Texas, Houston in the U.S.. 1981 Assistant Professor at University of Occupational and Environmental Health, Japan. 1985 entered the Ministry of Health and Welfare. 1988 Director-General of the Health and Environmental Department, Saga Prefectural Office. 1990 Director of the Measures against Special Diseases Division, Environmental Health Department, Agency of Environment. 1992 Director of the Medical Devices Division, Pharmaceutical Affairs Bureau, Ministry of Health and Welfare. 1993 Director of the Diseases Control Division, Health Service Bureau, Ministry of Health and Welfare. 1995 Director of the Infectious Disease Control Division, Health Service Bureau, Ministry of Health and Welfare. 1997 Director of the Health Development and Promotion Division, Health Policy Bureau, Ministry of Health and Welfare. 1998 Director of the Division for Regional Health Promotion and Nourishment, Health Service Bureau, Ministry of Health and Welfare. 1999, Director of the Health Sciences Division, Minister's Secretariat, Ministry of Health and Welfare. 2001, Director-General of the Environmental Health Department, Environmental Policy Bureau, Ministry of Environment.

John Peterson Myers

Director, W. Alton Jones Foundation, U.S.A.

Co-author of "Our Stolen Future", the book that stimulated worldwide interest in endocrine disruption, Dr. Myers is Director of the W. Alton Jones Foundation, a private foundation supporting efforts to protect the global environment and to prevent nuclear war. He was formerly Senior Vice President for Science at the National Audubon Society. He received his Ph.D. in zoology from the University of California, Berkeley, and he lives near Charlottesville, Virginia.

Yoichiro Kuroda

Head, Department of Molecular and Cellular Neurobiology, Tokyo Metropolitan Institute for Neuroscience, Japan

Dr. Kuroda read Biochemistry in University of Tokyo, obtained MS in molecular genetics and Doctor of medical science in molecular neurobiology, from University of Tokyo. He took visiting scientist position in Department of Biochemistry, Institute of Psychiatry, University of London, UK and then moved to Tokyo Metropolitan Institute for Neuroscience as a principle researcher. His main interest is molecular and cellular mechanism of human memory focusing on the dynamic change of synaptic connections in the brain. Recently, he recognized the developing brain with specific synaptic formation, is finely controlled by chemical substances including hormones. Therefore, the functional development of the brain can easily be disturbed by external chemicals, such as endocrine disrupters. Now he is a principal investigator of "Endocrine disrupting chemicals" project in CREST, supported by Japan Science and Technology Corporation.

Bernard Weiss

Professor, Department of Environmental Medicine and Pediatrics, University of Rochester School of Medicine and Dentistry, U.S.A.

Bernard Weiss is Professor of Environmental Medicine and Pediatrics at the University of Rochester School of Medicine and Dentistry. He is the editor or co-editor of seven books and monographs and author or co-author of over 200 articles. His special interests involve chemical influences on behavior: the neurobehavioral toxicology of metals such as lead, mercury and manganese; solvents such as toluene and methanol; drugs such as cocaine; air pollutants such as ozone; and endocrine disruptors such as dioxin. Dr. Weiss has served as a member of many committees devoted to toxicology and environmental health, including the U.S. Environmental Protection Agency's Science Advisory Board.

Chiharu Tohyama

Director, Environmental Health Sciences Division, National Institute for Environmental Studies (NIES), Japan

Graduated from the School of Health Science, The University of Tokyo, in 1972. Obtained Ph.D. (Toxicology) and Dr. of Medical Science from the University of Rochester in 1981 and the University of Tokyo in 1985, respectively. He started his career as researcher at the Environmental Health Sciences Division, NIES in 1981, was assigned as the Section Chief of the Environmental Pathology and Toxicology in 1992, and appointed at the current position 1992. He also serves as Professor at the Graduate School of the University of Tsukuba since 2001. He serves for many expert committees of the national and prefectural governments and international organizations. His research interests range from basic toxicological research to health risk assessment, focusing upon dioxins, environmental endocrine disruptors and heavy metals.

R. Thomas Zoeller

Professor, Biology Department, University of Massachusetts, U.S.A.

Dr. Zoeller obtained his B.S. in Biology from Indiana University, and his Ph.D. in endocrinology from Oregon State University. He then took a postdoctoral position in the Laboratory of Cell Biology at the National Institute of Mental Health followed by a staff position in the Laboratory of Neurochemistry at the National Institute of Neurological Disorders and Stroke. He then joined the medical faculty at the University of Missouri School of Medicine and most recently joined the faculty at the University of Massachusetts-Amherst. Dr. Zoeller was a standing member of the US EPA's Endocrine Disruptor Screening and Testing Workgroup.

Noriyuki Koibuchi

Professor of Physiology, Gunma University School of Medicine, Japan

1985 M.D., Gunma University School of Medicine, Maebashi, Gunma, Japan. 1989 Ph.D., Institute of Endocrinology, Gunma University, Maebashi, Gunma, Japan. 1989-1990 Postdoctoral Fellow, The Rockefeller University, New York. 1990-1998 Assistant Professor of Physiology, Dokkyo University School of Medicine, Tochigi, Japan. 1996-1999 Visiting Assistant Professor of Medicine, Harvard Medical School, and Research Associate of Medicine, Brigham and Women's Hospital, Boston. 1999-2001 (Mar) Associate Professor of Physiology, Dokkyo University School of Medicine. 2001(Apr)- Professor of Physiology, Gunma University School of Medicine, Maebashi, Gunma, Japan. Award and Honors: 1997 American Thyroid Association Research Grand Award, 2000 Quest Diagnostics Young Investigators Award, Endocrine Society, etc. Specialty: Endocrine Physiology, and Developmental Physiology.

Yasuhiro Yoshikawa

Professor of Department of Biomedical Science, Graduate School of Agricultural and Life Sciences, University of Tokyo, Japan

1971 Graduate of Veterinary Medicine, Faculty of Agriculture, Tokyo University. 1976 Finished PhD course of Veterinary Pathology, Graduate School of Agriculture, Tokyo University. 1976 Research scientist of Department of Measles Virus, National Institute of Health of Japan. 1977-1979 Research staff of the Virus Research Institute of Giessen University. 1980 Associate professor, then lecturer, assistant professor of Department of Veterinary Science, Institute of Medical Science, University of Tokyo. 1991 Director of Tsukuba Primate Center, National Institute of Health of Japan. 1997 Professor of Department of Biomedical Science, Graduate School of Agricultural and Life Sciences, University of Tokyo. Major Research Field; Laboratory Animal Science, Toxicology, Primatology.

Deborah C. Rice

Senior Toxicologist, National Center for Environmental Assessment, U.S. Environmental Protection Agency (EPA), U.S.A.

Dr. Deborah Rice received the Ph.D. in toxicology from the University of Rochester and is currently a risk assessor in the area of neurotoxicology with the National Center for Environmental Assessment at the Environmental Protection Agency. She is currently involved in health assessments of methylmercury and PCBs. Dr. Rice previously was a research scientist in the Toxicology Research Division of Health Canada, where she headed a research program focused on characterizing nervous system impairment produced by developmental exposure to the major environmental pollutants lead, methylmercury, and PCBs. Dr. Rice is currently an Associate Editor for the journals *Neurotoxicology*, *Neurotoxicology and Teratology*, and *Environmental Research*. Dr. Rice has authored or co-authored over 100 research articles and book chapters in the areas of neurotoxic effects of specific agents, methodological approaches for neurotoxicology research, and risk assessment.

Herman B.W.M. Koëter

Principal Administrator, Environmental Health and Safety Division, OECD

Dr. Herman B.W.M. Koëter is Principal Administrator at the OECD Environmental Health and Safety Division since November 1991. He is Programme Director of the following OECD Programmes: Test Guidelines Programme, Programme on Harmonisation of Classification and Labelling, OECD Special Activity on Endocrine Disrupters, and OECD Special Activity on Animal Welfare Policies. His main duties are to work closely with Member countries' representatives, representatives from international organisations and representatives from non-member countries, NGO's, Industry Associations and Worker Unions, both at the political and technical level, to achieve the objectives of the respective Programmes. Dr Koëter is also senior adviser for OECD on human health hazard and risk assessment policies and technical issues.

James W. Owens

Principal Scientist, Celtral Product Safety, Procter & Gamble, Miami Valley Laboratories, U.S.A.

Dr. Owens holds a doctoral degree in Molecular biology from Washington University, St Louis, USA. Dr. Owens area of expertise is the development, standardization, and validation of toxicological methods for application to hazard identification, hazard characterization, and risk assessment. His current area of interest is methods to assess and evaluate endocrine activity of chemical substances. Dr Owens has served on the USEPA's Standardization and Validation Task Force and currently serves on the USEPA Advisory Endocrine Disruptor Methods Validation Committee. Dr Owens also serves on the Mammalian Validation Group of OECD's Task Force on Endocrine Disrupters Testing and Assessment.

Daniel B. Pickford

Research Scientist, Brixham Environmental Laboratory, AstraZeneca, Global Safety Health and Environment, U.K.

Dan is a biologist with over 7 years research experience in the fields of reproductive biology and endocrinology in lower vertebrates, principally with amphibians. Much of this work has concerned the impact of environmental endocrine disrupters on reproductive and endocrine function. In addition to laboratory work, he has conducted extensive field work in Bolivian Amazon rainforest and the Florida everglades. Dan leads the BEL research program on amphibian ecotoxicology, which includes investigations into disruption of larval development by estrogenic and thyroid-active substances, as well as developing novel test methodologies for toxicological testing in amphibia. As member of the Research Unit he also contributes to other aspects of the endocrine disrupter research project, and provides technical support in biomarker development and use (e.g. VTG ELISAs). Dan is an active member within several international ecotoxicology working groups, including ECETOC, CEFIC-EMSG, and OECD. He is a member of SETAC and the Declining Amphibians Task Force, and holds a UK Government Home Office License for experiments involving fish and amphibia.

Masaru Wada

Professor at College of Liberal Arts and Sciences, Tokyo Medical and Dental University, Japan

Graduated from Department of Zoology, Faculty of Science, University of Tokyo in 1969 and received a doctor's degree in zoology from University of Tokyo in 1974. After one year stay at Department of Zoology, University of Washington as a research associate, got job at Institute for Medical and Dental Engineering, Tokyo Medical and Dental University. Moved to the present institution in 1984 and present position since 1987.

Minoru Uchiyama

Professor, Department of Biology, Faculty of Science, Toyama University, Japan

1972 BS. in Science, Dept. of Science, Toyama University, Toyama. 1982 Ph.D. in Science, Hokkaido University, Sapporo. 1972-1979 Research Associate, School of Dentistry, The Nippon Dental University, Niigata. 1979-1981 Visiting Researcher, School of Medicine, Texas Tech University, Lubbock, TX. 1981 Lecturer, School of Dentistry, The Nippon Dental University, Niigata. 1981 Visiting Researcher, Faculty of Science, University of Nijmegen, Nijmegen. 1982-1994 Associate Professor, School of Dentistry, The Nippon Dental University, Niigata. 1995 Professor, Faculty of Science, Toyama University, Toyama.

Jun Kanno

Section Chief (Senior Scientist), Cellular & Molecular Toxicology Division, Biological Safety Research Center, National Institute of Health Sciences, Japan

Received his M.D. from School of Medicine, Tokyo Medical and Dental University Graduate School for Medicine, Tokyo, Japan. 1986-1997, had been the teaching profession at School of Medicine, Tokyo Medical and Dental University. 1991-1993, Visiting Scientist, Cancer Genetics and Molecular Pathology, National Institute of Environmental Health Sciences, RTP, NC, U.S.A. Since 1997-present, engaged at present position, specialize in experimental pathology and molecular toxicology. Research includes molecular toxicity focused on studies on Endocrine Disrupting chemicals, carcinogenesis, general/molecular-based toxicology and OECD/EDTA Uterotrophic Assay project as the lead laboratory testing research of EDCs.

Robert J. Kavlock

Director, Reproductive Toxicology Division, National Health & Environmental Effects Research Laboratory, U.S. Environmental Protection Agency (EPA), U.S.A.

Received his Ph.D. in 1977 and for the past twelve years has been the Director of the Reproductive Toxicology Division in the National Health and Environmental Effects Research Laboratory, EPA located in Research Triangle Park, NC. His research interests lie in teratogenesis, developmental physiology/pharmacokinetics, reproductive toxicology, and quantitative risk models. He has been widely published and for the past six years has held a variety of responsibilities for the EPA's research program on endocrine disruptors. He has also been active as a member or officer in a number of organizations such as the Society of Toxicology, the Teratology Society, and the ALTX4 Study Section of NIH. He is the current president of the Teratology Society and currently holds adjunct appointments at Duke University and North Carolina State University.

Weida Tong

Manager of Computational Science Group, Logicon ROW Sciences, US FDA's National Center for Toxicological Research (NCTR), U.S.A.

Dr. Weida Tong is Manager of Computational Science Group of Logicon ROW Sciences located at the US FDA's National Center for Toxicological Research (NCTR). He is also an adjunct assistant professor in the Department of Pharmaceutical Sciences at University of Arkansas for Medical Sciences. Dr. Tong received his Ph.D. in 1990, and was a research associate in computational chemistry for six years at the University of Missouri-St. Louis. In 1996, he joined a multidisciplinary research team at NCTR that has been focusing on development of computational toxicology tools for risk assessment, and bioinformatics approaches for genomics and proteomics.

Nobuo Tomioka

Board Director and General Manager of Bioinformatics, Institute of Medicinal Molecular Design, Inc., Japan

1988: Ph. D. in Pharmaceutical Sciences at the University of Tokyo. 1990-1995: Assistant Professor at Laboratory of Medicinal Molecular Design, Faculty of Pharmaceutical Sciences, University of Tokyo. 1995: Joined the Institute of Medicinal Molecular Design (IMMD), Inc. at its inception. Present: Board director and general manager of bioinformatics at IMMD. Responsible for the development of systems for computer-assisted molecular design and bioinformatics.

Akiko Itai

C.E.O. and President, Institute of Medicinal Molecular Design, Inc., Japan

Masahiro Takeyoshi

Section Chief, Health Effect Research Section, Chemicals Assessment Center, Chemicals Evaluation and Research Institute (CERI), Japan

Awarded the degree of M.S. in Animal Sciences from Yamaguchi University Graduate School of Agricultural Science in 1984. He has got a position in Chemicals Evaluation and Research Institute (CERI) in 1984. Awarded the degree of Ph.D in Veterinary Sciences from the United Graduate school of Veterinary Sciences in Yamaguchi University in 1995. Present position: Section Chief, Health Effect Research Section, Chemicals Assessment Center, Chemicals Evaluation and Research Institute.

Bruce Blumberg

Assistant Professor, Department of Developmental and Cell Biology, University of California, U.S.A.

He received a Bachelor's degree (A.B.) in Biology from Rutgers University in Camden, NJ in 1976. His graduate training was in the Biology Department at UCLA (specializing in the Biochemistry and Molecular Biology of the extracellular matrix) from which he received a Ph.D in 1987. After one year of postdoctoral training at the University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School (1987-1988, extracellular matrix), he joined the Department of Biological Chemistry in the UCLA Medical School (1988-1992). His focus at UCLA was on the molecular embryology of vertebrate development. He joined Ron Evans's group at the Salk Institute as a Staff Scientist in 1992. Here he spearheaded the effort to identify ligands for orphan nuclear receptors. In 1998 he joined the faculty at the University of California, Irvine. Here he has continued his previous work on the role of retinoids and orphan nuclear receptors in development. This has led naturally to his interest in endocrine disruption, in particular the role of environmental retinoids in causing frog deformities and the interaction between environmental estrogens and the steroid and xenobiotic receptor, SXR. Another major research interest is in high throughput approaches to functional genomics.

Julianne M. Hall

Postdoctoral Research Fellow, Laboratory of Reproductive and Developmental Toxicology, National Institute of Environmental Health Sciences, U.S.A.

Dr. Julie Hall attended Trinity College in Hartford, CT and received a B.S. in Biology in 1994. She next entered a doctoral program in Cell and Molecular Biology at Duke University. In the laboratory of Dr. Donald McDonnell, she studied the molecular pharmacology of the estrogen receptors α and β and was involved in the development of a combinatorial phage display approach to study estrogen receptor biology. Dr. Hall received a Ph.D. in Pharmacology and Cancer Biology in 2000 and has continued her research as a postdoctoral fellow with Dr. Ken Korach at the National Institute of Environmental Health Sciences.

Tohru Inoue

Director, Center for Biological Safety Research, National Institute of Health Sciences, Japan

M.D. and Ph.D. from Yokohama City University (YCU) and the YCU-Graduate School in 1970 and 1974, respectively. Postdoctoral research involved hemopoietic stem cell biology as a Principal Investigator at the Tokyo Metropolitan Institute of Gerontology (1974-1984). In 1979, a visiting investigator, and later a research collaborator at the Medical Department, Brookhaven National Laboratory, NY, involved radiation and chemical toxicology in molecular biological aspects for 15 years. 1984-1994 Associate Professor in Pathol, at YCU, with a research program on cytokines and cytokine receptors. After an appointment as a Head at the National Institute of Radiological Sciences, he is engaged with the present position since 2001.

Yuji Kohara

Professor, Center for Genetic Resource Information, National Institute of Genetics, Japan

Graduated from Faculty of Science (Biophysics), Kyoto University in 1974 and from Graduate School of Science (Molecular Biology), Nagoya University in 1979. Research Associate at Institute of Molecular Biology, Nagoya University in 1980, Visiting Scientist at MRC Laboratory of Molecular Biology, Cambridge, UK in 1988, Associate Professor at DNA Research Center, National Institute of Genetics (NIG) in 1989, Professor at Structural Biology Center, NIG in 1996, Professor and Head at Center for Genetic Resource Information, NIG in 1998. Field of Expertise: Molecular Biology, Genome Biology.

Tim Williams

Research Fellow, School of Biosciences, The University of Birmingham, U.K.

Tim Williams joined the University of Birmingham in 1997, having completed his degree in Biochemistry at Bath University and doctorate in Biological Sciences at Warwick University. His research interests focus on gene and protein expression changes in response to environmental factors. These have included the study of chemolithotrophic growth in archaea and mercury resistance in bacteria. He is currently using DNA microarrays to elucidate the effects of environmental pollution on a marine fish, European flounder, in collaboration with Prof. Kevin Chipman. Funded by the NERC and the European Union, he has presented and published his research at an international level.

Kiyoshi Naruse

Assistant Professor, Department of Biological Sciences, Graduate School of Science, University of Tokyo, Japan

Graduated Department of Biology, Faculty of Science, Nagoya University, March 1982, with the degree of Bachelor of Science. Received a Ph. D. in March 1988 from University of Tokyo. Occupation: Served as an Assistant Professor, Department of Biological Sciences, Graduate School of Science, University of Tokyo (1988 to date). Membership: Zoological Society of Japan. The Genetic Society of America. The Genetic Society of Japan. Main interest: Fish genomics and the molecular phylogeny and evolution of fish.

Timothy Richard Zacharewski

Associate Professor, Department of Biochemistry & Molecular Biology, National Food Safety & Toxicology Center, Michigan State University, U.S.A.

Timothy Richard Zacharewski is an Associate Professor in the Department of Biochemistry & Molecular Biology and the National Food Safety & Toxicology Center at Michigan State University. He obtained his Ph.D. in Toxicology from Texas A&M University in the laboratory of S. Safe. He received a Medical Research Council of Canada Post Doctoral Fellowship to study with Professor Pierre Chambon in Strasbourg, France. In 1992, Dr. Zacharewski accepted an Assistant Professor position in the Department of Pharmacology & Toxicology at the University of Western Ontario. His research interests include molecular toxicology, structural biology and toxicogenomics related to endocrine disruptors.

Makoto Shibutani

Section Chief, Division of Pathology, National Institute of Health Sciences, Japan

From 1983 to 1985, Master course, Department of Veterinary Medicine, Faculty of Agriculture, Tokyo University of Agriculture and Technology. From 1985 to 1989, Doctor course, Department of Neuropathology, Medical Research Institute, Tokyo Medical and Dental University, and received a Ph.D. From 1989 to 1993, investigated experimental models for human brain tumors, as a Research Fellow of NIHS, Japan. From 1993, investigated the mechanism of growth control during neuronal differentiation, as a Visiting Fellow of Section on Growth Factors, NICHD/NIH, U.S.A. From 1998 to the present, investigating the gene regulation mechanisms on neuronal injury and carcinogenesis as a Section Chief of Division of Pathology, NIHS.

George Daston

Research Fellow, Miami Valley Laboratories, The Procter & Gamble Company, U.S.A.

Dr. Daston's research is on the effects of chemicals on the embryo, fetus and child. He joined Procter & Gamble in 1985. He has published over 90 scientific articles and edited three books. His research includes genomic approaches to endocrine disrupter screening. His professional activities include serving as President of Society of Toxicology's Reproductive and Developmental Toxicology Specialty Section and President, Teratology Society. Dr. Daston is an adjunct professor of pediatrics at the Children's Hospital Research Foundation. He was a Visiting Scientist at the Salk Institute, 1993-94. Dr. Daston was elected a AAAS Fellow in 1999.

Taisen Iguchi

Professor, Center for Integrative Bioscience, Okazaki National Research Institutes, Japan

B.Sc. 1974; M.Sc. 1976, Biology, Okayama University; Ph.D. 1981 Zoology, University of Tokyo. 2000- Professor, Center for Integrative Bioscience, Okazaki National Research Institutes. 2000 Professor, Institute for Basic Biology, Okazaki National Research Institutes. 1992-2000 Professor, Biology and Graduate School of Integrated Science, Yokohama City University. 1998 Invited "Low dose Issue2" by NIEHS at North Carolina. Invited Speaker "Gordon Research Conference Environmental Endocrine Disruptors" at New Hampshire. 1997 International Workshop on Endocrine Disruptors at Washington D.C. Organized "International Endocrine Disruptor Symposium" at Yokohama in the 13th International Congress of Comparative Endocrinology. 1996 Organized "Endocrine Disruptor Symposium" in Sydney the 3rd Asia-Oceania Comparative Endocrinology. 1995 Invited Speaker "Gordon Research Conference Hormonal Carcinogenesis" at New Hampshire. 1994 Visiting Endocrinologist, Department of Molecular and Cell Biology, University of California at Berkeley. Invited Speaker "Estrogens in the Environment IV" at Washington, D.C. 1989-91 Associate Professor, Graduate School of Integrated Science, Yokohama City University. 1989 Visiting Endocrinologist, Department of Zoology and Cancer Research Laboratory, University of California, Berkeley. 1987-91 Associate Professor, Biology, Yokohama City University. 1981-83 Postdoctoral Fellow, Department of Zoology and Cancer Research Laboratory, University of California, Berkeley. 1979-87 Research Associate, Biology, Yokohama City University. 1978-79 Researcher in Cell Biology, Shigei Medical Institute, Okayama. Member of Endocrine Disruptor Research Committees in Ministry of the Environment, Ministries of Health, Labour and Welfare, Ministry of Economy, Trade and Industry, Ministry of Land, Infrastructure and Transport, Yokohama City University, and Kitakyusyu City etc.

Michael H. Depledge

Professor of Ecotoxicology, Plymouth Environmental Research Centre, University of Plymouth, U.K.

Michael Depledge gained a First Class BSc (Hons) in Biological Sciences from University of London in 1975. His PhD addressed the physiology of marine invertebrates. In 1979 he moved to the Royal Marsden Hospital, examining the development of lung damage in leukaemia patients following bone marrow transplantation. In 1983 he moved to the University of Hong Kong, where he resumed work on comparative physiology and ecotoxicology. He is currently Director of the Plymouth Environmental Research Centre. He has published over 200 peer-reviewed papers in international journals, is an Honorary Professor of Harvard University and an advisor to the UN and WHO.

Mark E. Hahn

Associate Scientist, Biology Department, Woods Hole Oceanographic Institution (WHOI), U.S.A.

Mark Hahn received a Ph.D. in Toxicology from the University of Rochester (New York) School of Medicine in 1987. He then joined the Biology Department of the Woods Hole Oceanographic Institution (WHOI) in Massachusetts as a Postdoctoral Fellow. He is currently a Tenured Associate Scientist at WHOI. Dr. Hahn's major research interests include receptor-mediated mechanisms of toxicity; mechanisms of adaptation and acquired resistance to chemical exposure; toxicology of dioxins and other persistent organic pollutants in fish, birds, and marine mammals. He lives on Martha's Vineyard Island with his wife, Rachel Graber, and their 2-year-old son Sam.

Kazunori Fujii

Chief of Ecotoxicology Section, Environment Conservation Division, National Research Institute of Fisheries and Environment of Inland Sea, Fisheries Research Agency, Japan

1981 Graduated from Faculty of Agriculture, Miyazaki University. 1981-1982 Mitsui Pharmaceutical Co., Ltd. 1983-1985 Research Section, Research Division, Fisheries Agency. 1985-1998 National Research Institute of Aquaculture. 1998-present Chief of Ecotoxicology Section, Environment Conservation Division, National Research Institute of Fisheries and Environment of Inland Sea. 1999 Ph.D. United Graduate School of Agricultural Sciences, Kagoshima University.

Tyrone B. Hayes

Associate Professor, Department of Integrative Biology, University of California, Berkeley, U.S.A.

Tyrone B. Hayes was born in Columbia, South Carolina, USA on July 29, 1967. He conducted his Bachelor's studies at Harvard University (completed in 1989), followed by doctoral work at the University of California, Berkeley (completed in 1993). Hayes joined the faculty of the Department of Integrative Biology at UCB in 1995. His research focuses on the developmental endocrinology of amphibians. Field and laboratory work are integrated to address the role of hormones in developmental and physiological responses to ecological change as well as the evolution of the mechanisms underlying these responses. Fieldwork focuses on the desert Southwest (USA), swamps of southeastern USA, and various habitats in Africa.

Louis J. Guillette Jr.

Distinguished Professor, Department of Zoology, University of Florida, U.S.A.

Louis J. Guillette, Jr. is Distinguished Professor of Zoology at the University of Florida. Prof. Guillette received his doctorate in Comparative Reproductive Biology from the University of Colorado @ Boulder in 1981. Dr. Guillette is an award winning teacher of General Biology, Embryology and Reproductive Biology. He is internationally recognized for his work in the field of reproductive biology, specifically reproductive and developmental endocrinology of wildlife species. He has served as an expert witness to the US. Congress & Senate and as a scientific policy advisor to many U.S. and foreign agencies regarding environmental contamination.

Fumiki Hirahara

Professor of Obstetrics and Gynecology, Yokohama City University School of Medicine, Japan

1977 received MD from Yokohama City University School of Medicine. 1979-Staff Physician, Dept. of Obstetrics and Gynecology, Yokohama City University Hospital; 1984-Research Fellow, Department of Immunogenetics, Mayo Clinic/Mayo medical school, U.S.A.; 1991-Assistant Professor, Dept. of Obstetrics and Gynecology, Yokohama City University; 1998- Professor of Obstetrics and Gynecology, Yokohama City University. Present Appointments: Professor and Chair, Department of Obstetrics and Gynecology, Yokohama City University; Director, International Clearinghouse for Birth Defects Monitoring Systems Japan Center; Associate Director, Japan Birth Defects Monitoring Program; Vice President, Yokohama City University Hospital. Involved to world-wide Birth Defects Monitoring Surveillance System as Associate Japan Program Director from 1993. Specialities and interests: Periconceptional and perinatal teratology and dysmorphology, Clinical genetics.

Paul A. L. Lancaster

Conjoint Associate Professor UNSW, School of Women's and Children's Health, University of New South Wales, Australia

Initially trained as a paediatrician and was Director of Newborn Services at the Royal Hospital for Women in Sydney in the 1970s. After two years on an NHMRC Fellowship in Applied Health Sciences in London and Berkeley, he was Director of the AIHW National Perinatal Statistics Unit at the University of Sydney, then the University of New South Wales, from 1979 to 2001. In his work as a reproductive and perinatal epidemiologist, he set up the national birth defects monitoring program, established the world's first national register of IVF pregnancies in 1983, and co-ordinated national reports on Australia's mothers and babies, Indigenous mothers and babies, and reproductive health. Member, WHO Expert Advisory Panel on Human Genetics.

Frank H. Pierik

Postdoctoral Fellow, Department of Public Health, Erasmus University Rotterdam, The Netherlands

Pierik graduated as a health scientist in 1994 (Study of Health Sciences, University of Nijmegen), and received his PhD in 1999 on evaluation of diagnostic methods and treatments in male infertility (University Hospital Rotterdam). Pierik has experience in coordination, analysis and reporting of large epidemiological studies. Specific interests: the implications of environmental endocrine disruptors for male reproductive health, male (in)fertility, and endocrine markers of spermatogenesis. Currently, he is principal investigator of 2 prospective studies on the association between exposure to endocrine disruptors and 1) cryptorchidism and hypospadias, and 2) sperm quality (Department of Public Health, Erasmus University Rotterdam, The Netherlands).

David J. Hunter

Professor of Epidemiology and Nutrition, Harvard School of Public Health, Harvard University, U.S.A.

Born in London, Dr. Hunter attended medical school at the University of Sydney in Australia, then entered Harvard University's School of Public Health where he earned his M.P.H. and Sc.D. in 1985 and 1988 respectively. Dr. Hunter first began teaching at Harvard's School of Public Health in 1986 and today is a Professor of Epidemiology and Nutrition there. Over the years, he has served professional organizations in various capacities and is Director of Harvard's Center for Cancer Prevention. He has also been active on many of Harvard's public health-related committees as well as national and international advisory groups. He serves on the editorial board of Epidemiology and is currently a member of the editorial board of the Human Genome Epidemiology Network.

Teiji Takei

Deputy Director, Environmental Risk Assessment Office, Environmental Health and Safety Division, Environmental Health Department, Ministry of the Environment, Government of Japan, Japan

1991 Graduated from National Defense Medical College, clinical training at its affiliated hospitals. 1994-1997 Surgical resident at Yale University, School of Medicine. 1999 Ph.D., (regarding signal transduction of Protein Kinase C in keratinocytes). 2000 Deputy Director, Office of Environmental Risk Assessment, Environmental Health Department, Ministry of the Environment.

Gary E. Timm

Senior Technical Advisor, Office of Science Coordination and Policy (OSCP), U.S. Environmental Protection Agency (EPA), U.S.A.

Gary E. Timm is the Senior Technical Advisor in the Office of Science Coordination and Policy (OSCP) of the Office of Prevention, Pesticides and Toxic Substances at the U.S. Environmental Protection Agency in Washington, D.C. Mr. Timm received a B.S. in biochemistry at Louisiana State University in 1966, a M.S. in organic chemistry from the University of Minnesota in 1971 and a M.A. from the Humphrey Institute of Public Policy in 1976. He joined EPA in 1973 as a Technical Advisor in the EPA's Office of Mobile Source Air Pollution Control where he worked on issues related to the introduction of oxidation catalysts on automobiles. He worked in the Department of Energy from 1978 to 1979. He

rejoined EPA in the Office of Toxic Substances in 1979 to implement the chemical testing provisions of the Toxic Substances Control Act. He served as section chief and later as branch chief in the Chemical Testing Branch. Mr. Timm served as a workgroup member and staff support to the Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC), a committee commissioned to develop a program to screen chemicals for their potential to disrupt the endocrine system of humans and wildlife under the Food Quality Protection and Safe Drinking Water Acts of 1996. He is now working to implement EPA's Endocrine Disruptor Screening Program, which is based on the recommendations of EDSTAC. His main responsibilities include development of testing policy, validation of the screening and testing assays, and development of a system to select chemicals and set priorities for screening. He is the U.S. representative to the OECD's Endocrine Disruptor Testing and Assessment workgroup. He also represents EPA on various interagency workgroups including the National Toxicology Program's Interagency Committee for Chemical Evaluation and Coordination and the Tri-Agency Superfund Applied Research Committee.

Judith A. Graham

Senior Scientist/Senior Director, American Chemistry Council, U.S.A.

Dr. Graham has a Ph.D. in physiology and pharmacology from Duke University. She serves as a Senior Director/Senior Scientist of the Long-Range Research Initiative of the American Chemistry Council. Prior to this, she was with the U.S. Environmental Protection Agency's Office of Research and Development for 32 years, where she held a variety of positions in research and research management. She has been elected to offices in several scientific societies, and is a member of the Committee of Toxicology of the U.S. National Academy of Science. Dr. Graham is an author of over 135 journal articles, book chapters, and conference proceedings.

Kathleen Cameron

Head of Priority Chemicals Branch, Chemicals, Biotechnology Division, DEFRA, U.K.

Trained as a toxicologist. Worked formerly in the Department of Health and the European Commission Environment Directorate. Currently Head of the Priority Chemicals Branch in the Department of the Environment, Transport and the Regions and Chairman of the Government's Interdepartmental Group on Endocrine Disrupters.

Mustafa Ali Mohd

Associate Professor, Department of Pharmacology, Faculty of Medicine, University of Malaya, Malaysia

Currently is a lecturer in the Department of Pharmacology, Faculty of Medicine, University of Malaya. He is also the founder member and consultant to the Shimadzu-UMMC Centre for Xenobiotic Studies, Faculty of Medicine, University of Malaya. He obtained his PhD from the University of Malaya in Pharmacology and Phytochemistry. He has been the National coordinator for Malaysia in the United Nations University project on Environmental Monitoring in East Asian region. He has published more than 30 books on various topics such as Malaysian Medicinal Plants, Drugs of abuse, High Performance Liquid Chromatography (HPLC), Volatile organic compounds and Sample preparation for analytical techniques. His research interests are Endocrine disruptors, toxicology, analytical and clinical pharmacology, drugs of abuse and medicinal plants.