



International Symposium on Environmental Endocrine Disruptors 2002

Tuesday, November 26 - Thursday, November 28, 2002

講演者一覽

List of Speakers

Shunichi Suzuki*Minister of the Environment, Japan*

Born: 13 April 1953, Tokyo. Member of the House of Representatives (HOR). Constituency: Iwate 2nd District. Political Party: Liberal Democratic Party (LDP). Education: 1977 Graduated from the department of education, Waseda University. Career: 1977 Member of National Federation of Fisheries Co-operative Associations. 1985 Secretary to Mr. Zenko Suzuki, member of the House of Representatives (HOR). 1990 Elected to the HOR. 1991 Director, Committee on Judicial Affairs. 1993 Elected to the HOR (2nd term), Director, Special Committee on Disasters, HOR. 1994 Director-General, Local Organization Bureau to the National Organization Committee, LDP. Director, Committee on Public Management, Home Affairs, Posts and Telecommunications, HOR. Member of Board of Directors, Committee on Health and Welfare, HOR. Director, Fisheries Division, LDP. 1996 Elected to the HOR (3rd term), State Secretary, Ministry of Health and Welfare. 1998 Director, Social Affairs Division, LDP. 2000 Elected to the HOR (4th term), Deputy Chairman, Policy Research Council, LDP. 2001 Chairman, Committee on Health, Labor and Welfare, HOR. 2002 Deputy Secretary-General, LDP. Director, Committee on Health, Labor and Welfare, HOR. Minister of the Environment. (As of October 2002)

Yuzan Fujita*Governor of Hiroshima Prefecture, Japan*

1972 Graduated from Keio University, Tokyo, Faculty of Commercial Science. 1972 Mitsui & Co., Ltd. (During his service, he was sent to Australia as a trainee and to the United States as a resident officer.) 1982 Secretary to Mr. Masaaki Fujita, previous President of House of Councilors. 1989 Elected as a Member of the House of Councilors. 1993 Elected as the Governor of Hiroshima Prefecture. 1997 Re-elected as the Governor of Hiroshima Prefecture. 2001 Re-elected as the Governor of Hiroshima Prefecture.

Yoshitake Masuhara*Member of the House of Representatives, Japan*

June 1945 Born in Higashikaniya-cho, City of Hiroshima, Hiroshima Prefecture. 1958 Graduated Onaga Elementary School and entered Shudo Junior High School. 1964 Graduated Shudo High School and entered the University of Tokyo one year later. June 1969 Graduated 3 months late due to student protests and entered the Ministry of Finance. Worked mostly in tax and budget areas and gained experience in local government, while on temporary assignment at the City of Yokohama. Assignments also included dispatch to the Japanese Embassy in the UK, which permitted close observation of the financial big bang and "Black Monday" during the Thatcher administration. Dispatched to the Ministry of the Environment after the Global Environmental Summit and drafted the Basic Environment Law. June 1995 Resigned from the Ministry of Finance as the director of the Tokai Local Finance Bureau and returned to Hiroshima to begin political career. 1996 Stood as a candidate in the 41st House of Representatives election. 1997 Established the Institute of Environment and Economics "Mission Japan." 2000 Stood as a candidate in the 42nd House of Representatives election and was elected as the Hiroshima 3rd District representative. <Current Activities> House of Representatives: Member of the Committee on Financial Affairs, member of the Committee on Economy, Trade and Industry, member of the Special Committee on Disasters. Liberal Democratic Party: Vice-Chairman of the Committee on Organizations Involved with Public Finance, Finance and Securities; Deputy-Director of Labor Administration Division; Deputy-Director of Photography and Video Division; Chairman, Hiroshima Prefecture House of Representatives Electoral District Branch. <Representatives Organizations> Federation of Representatives for the Promotion of Constitutional Research; Federation of Diet Members for the Promotion of Anticipatory Diplomacy; Global Legislations Organization for a Balanced Environment; Representatives Discussion Group on Recycling Systems; Federation of Diet Members for the Promotion of Natural Energy; Federation of Diet Members for the Promotion of Activities to Experience Nature; Federation of Representatives on Population, Food, and the Environment; Federation of Representatives on Countermeasures for a Society with a Low Birthrate; Federation of Representatives on Promotion of Erosion Control Projects; Federation of Representatives on Automobile Servicing; Federation of Representatives on the Revitalization of Japanese Industry; Structural Reform Research Committee; Tobacco Distribution Research Committee; Representatives Society for the Rebirth of Japan; Society of Junior Diet Members Supporting Decisive Action for Unlimited Structural Reforms Under the Koizumi Administration; and others. <Hobbies> Mountain hiking, Go (3rd-grade)

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 of 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. Chair, Policy Assessment Team on Environmental Endocrine Disrupters.

Taizo Muta*President, Hiroshima University, Japan*

<Academic Qualifications> 1960 Bachelor of Science, Department of Physics, Faculty of Science, Kyushu University. 1962 Master of Science, Graduate School of Mathematical and Physical Sciences, Tokyo University. 1965 Doctor of Science, Graduate School of Mathematical and Physical Sciences, Tokyo University. <Working Career> 1965 Research Associate, Faculty of Science, Kyoto University. 1971 Associate Professor, Research Institute for Fundamental Physics, Kyoto University. 1982 Professor, Faculty of Science, Hiroshima University. 1991 Member of the Senate, Hiroshima University. 1993 Presidential Aide, 1995 Dean, Faculty of Science, and 1999 Vice President, and 2000 Professor, Graduate School of Science, Hiroshima University, 2001 President, Hiroshima University. <Field of Specialization> Theory of Elementary Particles, Quantum Chromodynamics and Dynamical Symmetry Breaking in Quantum Field Theory.

Osamu Tsutsumi*Professor of Department of Obstetrics and Gynecology, Faculty of Medicine, University of Tokyo, Tokyo, Japan*

Born on May 29, 1950 at Chichibu, Japan, Dr Tsutsumi was educated at the Faculty of Medicine, University of Tokyo and received his M.D. degree in 1976. After graduation, he has been an Obstetrician and Gynecologist and received Ph.D. in 1983. He had been a research fellow at the Laboratory of Molecular and Cellular Biology, National Institutes of Health, USA, 1985-1987. His present appointments include Head, Department of Gynecologic Surgery, Tokyo University Hospital, Member of Core Research for Evolutional Science and Technology (CREST), Visiting Professor of Gunma University and Visiting Obstetrician and Gynecologist, Royal Household Hospital. His clinical research interests have focused on the reproductive endocrinology and infertility including Assisted Reproductive Technology, surgical laparoscopy, growth factors in reproductive physiology especially in oocyte maturation and embryo development, and clinical investigation of sex determination and differentiation. Recently, he was interested in endocrine disruption in human reproduction. He has served on many editorial boards including Journal of Japan Society for Endoscopic Surgery, Journal of Mammalian Ova Research.

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.

Tim Meredith*Coordinator, International Programme on Chemical Safety (WHO/ILO/UNEP), WHO*

Coordinator, International Programme on Chemical Safety (WHO/ILO/UNEP), World Health Organization, Geneva, Switzerland (2000-). Previously, Professor of Medicine & Pathology and Director, Center for Clinical Toxicology, Vanderbilt University, Nashville, Tennessee (1995-2000), Senior Medical Officer, Clinical Toxicology/Environmental Chemicals & International Relations, Department Health, London (1989-1995). Prior to that, posts in general medicine and clinical toxicology (1975-1989), with education at Cambridge University & Guy's Hospital Medical School (1969-1975). Fellow of the Royal College of Physicians of London (1994), Fellow of the American Academy of Clinical Toxicology (1993).

Bengt-Erik Bengtsson*Professor, Aquatic Ecotoxicology, Institute of Applied Environmental Research, ITM, Stockholm University, Sweden*

Fields of interest: Effects of single substances and complex effluents on aquatic organisms. Development of new test methods and strategies for environmental risk assessment. Endocrine disrupters (ED) in Waste Waters: 1) Lab. based crustacean studies; Multi-generation test with harpacticoid copepod *Nitocra spinipes* to trace effects on reproduction and development (draft OECD test guideline for marine copepod development and reproduction in progress). 2) Fish: Three-spined sticklebacks *Gasterosteus aculeatus* are tested for ED-effects in lab. and field studies.

James P. Kariya*Environmental Scientist, Office of Science Coordination and Policy, U.S. Environmental Protection Agency*

Environmental scientist, Office of Science Coordination and Policy, U.S. Environmental Protection Agency. MSES (Indiana University) in environmental impact assessment; additional graduate work in toxicology at the Massachusetts Institute of Technology. Served as Executive Secretary for the Subcommittee on Toxics and Risk of the National Science and Technology Council; Co-chairman of the USEPA's Risk Characterization Implementation Team; Section Head of the Dietary Risk Evaluation Section of EPA's Office of Pesticide Programs; additional experience in Pre-Manufacture Notification review and Long-Term Assessment of chemicals. Mansfield Fellow at the Japanese Ministry of Health and Welfare, 1996-1997.

William S. Stokes*D.V.M., Diplomat ACLAM, USA*

Dr. Stokes is Director of the National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods at the National Institute of Environmental Health Sciences. He administers the Interagency Coordinating Committee on the Validation of Alternative Methods (ICCVAM), which evaluates the scientific validity of new test methods for federal agencies. He earned his B.S. from the University of Louisville and his Doctor of Veterinary Medicine from the Ohio State University. He is board certified by the American College of Laboratory Animal Medicine (ACLAM) and currently serves as a Council member for the National Research Council's Institute for Laboratory Animal Research.

Hironori Hamanaka

Vice-Minister for Global Environmental Affairs, Ministry of the Environment, Japan

Graduated from Tokyo University, Faculty of Engineering in 1967. 1969-71 Officer, Pollution Control Division, Ministry of Health and Welfare. 1971 Joined Environment Agency when it was established. 1971-74 Officer, Planning Division, Air Quality Bureau, Environment Agency. 1974-75 Officer, Air Pollution Control Division, Air Quality Bureau, Environment Agency. 1975-76 Officer, International Affairs Division, Minister's Secretariat, Environment Agency. 1976-79 First Secretary (for environment), Japanese Delegation to OECD. 1979-81 Assistant Director, Environmental Management Division, Planning and Coordination Bureau, Environment Agency. 1981-83 Assistant Director, Environmental Impact Assessment Division, Planning and Coordination Bureau, Environment Agency. 1983-86 Senior Researcher, General Affairs Division, Minister's Secretariat, Environment Agency. 1986-88 Director, Office of Traffic Pollution, Air Quality Bureau, Environment Agency. 1988-91 Director, Air Pollution Control Division, Air Quality Bureau, Environment Agency. 1991-94 Director, Planning Division, Global Environment Division, Environment Agency. 1994-95 Director, Planning Division, Water Quality Bureau, Environment Agency. 1995-2000 Director General, Global Environment Department, Environment Agency. 2001 Director-General, Global Environment Bureau, Ministry of the Environment. 2001- Vice-Minister for Global Environmental Affairs, Ministry of the Environment.

Taisen Iguchi

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

Received his Master of Science at Graduate School of Science, Okayama University and Doctor of Science at University of Tokyo. Dr. Iguchi joined the Faculty of Humanities and Sciences at Yokohama City University as a research assistant in 1979. He became an associate professor, and was later promoted to a professor in 1992. During these years, he conducted research first as a postdoctoral researcher and then as a visiting researcher at the University of California, Berkeley. In 2000, he was appointed professor at the National Institute for Basic Biology at the Okazaki National Research Institutes, and later at the Center for Integrative Bioscience of the same institute. From 1974, Dr. Iguchi conducted research at the laboratory of Dr. Noboru Takasugi, President of Yokohama City University. He found that the exposure of sex hormones and hormone-related agents into fetal and perinatal mice caused morphological disorders of the reproductive organs and accessory organs. He also found that female hormones are important in the masculinization of animals via the hypothalamus, which controls hormone secretion of gonads, and further found that hormones and hormone-related agents cause disorders in the bones and muscles of perinatal mice. Ideas arising from this research have been applied to fish and amphibians. Dr. Iguchi is currently planning work on the permeation of hormone-related agents into the placenta and the influence of hormone-related agents on gene functioning. As a leading scientist in this field, he has been invited in a number of international conferences. Dr. Iguchi is vice-president of the Japan Society of Endocrine Disrupter Research, and is a member of a number of councils within governmental organizations, including the Environment Agency, Ministry of Labor, and Science and Technology Agency. Dr. Iguchi's recent publications include: "*Organogenesis*"; "*The Toxicity of Hormones in Perinatal Life*" (English); "*Cell-centered Biology*"; "*Tamoxifen Beyond the Antiestrogen*" (English); "*Reproduction Disaster*"; and "*Altering Eden: The Feminization of Nature*".

Kimihiko Iwamoto

General Manager, Environment and Safety Division, Mitsui Chemicals Inc., Japan

1996 Completed the master course of The Graduated School of Tokyo University. 1996 Joined Mitsui Petrochemical Industries Ltd. and engaged in manufacturing technique management, environment and safety management and quality control. 1993 General manager of Environment, Safety and Quality Division of Mitsui Petrochemical Industries. 1997 General manager of Quality management Division and 1998 General manager of Environment and Safety Division of Mitsui Chemicals Inc. Engaged in the various industry activities such as the chairman of the endocrine safety working group of JClA, the chairman of BPA safety committee of Japanese Manufacturers and the chairman of the dialogue group of JRCC.

Yuko Sakita

Journalist, Environmental Counselor, Japan

She was graduated from Rikkyou University in 1974. After work in editing magazine with Syueisya, Inc., she became a free journalist. Looking at issues from ordinary citizen's point of view, she has been lecturing and writing on environmental problems, mainly on making of the sustainable society. She is also widely promoting environmental education as an environmental counselor registered with Ministry of the Environment. In 2001, she was a member of the "Meeting on Creation of the Wanokuni for the 21st Century," prime minister's private informal discussion gathering. And she is a member of the following governmental committee; "Central Environment Council (Sustainable Planning Section), "Round Table on Chemicals and the Environment," etc. As for activities of environmental NPO, she is in charge of the following; Secretariat for "GENKIGOMI Network for sustainability" Her writing includes; "DiETING garbage for everyone" (Godo publishing, Inc.), etc. Her editing work includes; (authoring and editing as "GENKIGOMI" Network for Sustainability) "Sustainable society will be born from businesses and citizens" "Environmental community making that connects people to people, heart to heart ~," etc.

Keiko Endo

Yamamoto Elementary School, City of Hiroshima, Japan

Graduate of Faculty of School Education, Hiroshima University. Majoring in elementary school education and biology. Current position: Homeroom Teacher of Second grade students, previously Yasukita Elementary School and Ohmachi Elementary School. Considering how to teach Environmental issues in schools since "the General Studies Lessons" in elementary schools started in Japan from in April 2002.

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 Developmental Staff for the Planning Department, National Environmental Health and Safety Division, Environmental Policy Bureau, Ministry of Environment.

Goro Koide

NHK Executive Commentator. Professor of Otsuma Women's University, Japan

1941 Born in Tokyo, Japan. 1964 Joined NHK (Japan Broadcasting Corporation) as a program director of Science and Technology. 1978-80 BBC External Service in London. 1984 Produced and directed "The Nuclear Holocaust". 1985 Presenter of "The Brain", co-produced with WNET in New York. 1989 Presenter of "The Universe Within: Human Body". 1989 Executive Commentator covering science and technology news and programs. 2002- NHK Executive Commentator. Professor of Otsuma Women's University. Prizes: For "The Nuclear Holocaust" 1984 Prix Italia Award for the best documentary. Grand TV prize from Japan Journalist Council. For "The Universe Within: Human Body. 1989 Grand prize of Japan Prize. Publications; 1973 The Way toward Energy Conservation, Housou Shuppan Kyokai. 1974 Is Nuclear Energy Necessary?, Gijutu to Shakai. 1980 Soft Energy Policy for the 21st century, Housou Shuppan Kyokai. 1985 Green Weapon: Strategy of Biological Resources, Shaki Shisousha. 1988 The Brain: the Universe of 1400g, Asahi Shinbunsha. 1989 The Human Body, Housou Shuppan Kyokai.

Keiko Nohara

Chief, Environmental Health Sciences Division, National Institute for Environmental Studies, Japan

Graduated from Faculty of Science, Ochanomizu University and Received a Ph.D. for research in the field of Biochemistry from Ochanomizu University. She started her professional career as Research Associate at Ochanomizu University and moved to NIES. At present, Chief of Molecular and Cellular Toxicology Section, Environmental Health Sciences Division, NIES and Professor (Adjunct) at Graduate School, University of Tsukuba. Her current research interests are in the molecular mechanisms of effects of dioxins on immune function.

Henk van Loveren

Head, Laboratory for Pathology and Immunobiology, National Institute of Public Health and the Environment, The Netherlands

Henk van Loveren got his Ph.D. at the Utrecht University (tumorimmunology) in 1981. Subsequently, he spent a 2-year post-doctoral period at the Section Clinical Immunology at Yale University, New Haven CT, USA. Since 1984 he has been employed by the National Institute of Public Health and the Environment (RIVM) in Bilthoven, where he leads a research group in the field of Immunotoxicology. Currently, Dr. van Loveren is head of the Laboratory for Pathology and Immunobiology of RIVM, head of the WHO/IPCS Collaborative Centre of Immunotoxicology and Allergic Hypersensitivity at RIVM, and president of the EUROTOX Speciality Section of Immunotoxicology and Chemical Allergy. May 1, 2002 he was appointed Professor of Immunotoxicology at the Maastricht University in the Netherlands.

Hugo O. Besedovsky

Professor of Physiology, Medical Faculty, Philipps Marburg University, Germany

Medical Doctor. Member of the Staff and later Director of the Swiss Research Institute (Davos, Switzerland, 1972-1987). Director of the research group Neuroimmunology (Research and Teaching Centre, Medical Faculty, Basel, Switzerland, 1988-1992). Full professor of Physiology at the Medical Faculty, Philipps University, Marburg, Germany, 1992 until present). More than 100 publications on immune-neuroendocrine interactions in peer-review journals including Science, Nature, J. Exp. Med., Proc. Natl. Acad. Sci. Member of the editorial board of several journals.

Kou Sakabe

Director, Environmental Medical Center, The Kitasato Institute Professor, Graduate School of Medical Sciences, Kitasato University, Japan

Research interests include environmental illness, endocrine disruptors, toxic volatile organic chemicals, and clinical ecology. M.D., Ph.D. 1988-1990: Research Fellow, Department of Anatomy and Cellular Biology, Tufts University School of Medicine (Prof. Carlos Sonnenschein's Lab.). 1988: Assistant Professor, Department of Histology, Tokai University School of Medicine. 1994: Associate Professor, Department of Morphology, Tokai University School of Medicine. 2000-present Director, Environmental Medical Center, The Kitasato Institute, Professor, Graduate School of Medical Sciences, Kitasato University.

Hidekuni Inadera

Associate Professor, Environmental Science Center, University of Tokyo, Japan

1985 Graduated from the School of Medicine, Kanazawa University, received his M.D. 1985-1994 Second Department of Internal Medicine, Chiba University, received his Ph.D. 1994-1996 Postdoctoral fellow at CNRS in Nice University, France. 1997-1999 Research associate at Department of Molecular Preventive Medicine, University of Tokyo. 1999- Associate Professor, Environmental Science Center, University of Tokyo.

Katsutoshi Yoshizato

Ph. D., Professor of Graduate School of Science, Hiroshima University, Japan

Date of birth; April 3, 1943. Academic Degree; 1966 B.S., Tokyo University, Faculty of Science, Department of Biophysics and Biochemistry. 1972 Ph.D., Tokyo University, Graduate School of Science, Department of Biophysics and Biochemistry. Academic Careers; 1987 Associate Professor of Tokyo Metropolitan University, Faculty of Science. 1990-Present Professor of Hiroshima University, Faculty of Science. 1992-1997 Director of Yoshizato MorphoMatrix Project, ERATO, JRDC. 1997-Present Director of Tissue Regeneration Project in Hiroshima Regional Intensive Program. Awards; Zoological Science Prize from The Zoological Society of Japan (1986) etc.

Yun-Bo Shi

Head of the Unit on Molecular Morphogenesis, Laboratory of Gene Regulation and Development, NICHD, NIH, USA

Yun-Bo Shi obtained Ph.D. from Dept. of Chemistry, University of California at Berkeley in 1988, and since 1992, has been the Head of the Unit on Molecular Morphogenesis, Laboratory of Gene Regulation and Development, NICHD, NIH, Bethesda, MD. Research in his laboratory focuses on the molecular mechanism of thyroid hormone-dependent metamorphosis in *Xenopus laevis*. Specific projects are to investigate 1) the *in vivo* function of thyroid hormone receptors and the underlying mechanisms, and 2) the roles of thyroid hormone-induced genes in tissue remodeling during metamorphosis.

Yoshio Yaoita

Professor, Division of Embryology and Genetics, Institute for Amphibian Biology, Graduate School of Science, Hiroshima University, Japan

1973-1979 Medical School, University of Tokyo; graduated with the degree of M.D. 1979-1980 Department of Physiological Chemistry and Nutrition, Graduate School of University of Tokyo; the molecular biological research work with Dr. Tasuku Honjo. 1980-1983 Transferred to Graduate School of Osaka University together with Professor Tasuku Honjo, graduated from the Department of Genetics, Graduate School of Osaka University with the degree of Ph.D. 1983-1985 Assistant Professor, Department of Genetics, Osaka University Medical School. 1985-1990 Assistant Professor, Department of Medical Chemistry, Faculty of Medicine, Kyoto University. 1987-1990 Research fellow, Department of Embryology, Carnegie Institution of Washington. 1990-2000 Staff Member, Department of Molecular Neurobiology, Tokyo Metropolitan Institute for Neuroscience. 2000-present Professor, Division of Embryology and Genetics, Institute for Amphibian Biology, Graduate School of Science, Hiroshima University.

Barbara Demeneix

Professor of Physiology, Muséum National d'Histoire Naturelle, France

Barbara Demeneix is Professor of Physiology in the Museum of Natural History (MNHN, Paris, France). She is Director of the CNRS unit (Evolution of Endocrine Regulations) and Director of the Department of Biology within the MNHN. She serves on numerous national and international committees. Over the last 10 years her research has been directed towards understanding the molecular basis underlying the actions of thyroid hormone during development. To this end she has developed a number of non-viral somatic gene transfer methods for use *in vivo* along with applying fusion protein technology to transgenic *Xenopus*.

Robert J. Denver

Associate Professor and Associate Chair of Molecular, Cellular and Developmental Biology, University of Michigan, USA

He is currently Associate Professor and Associate Chair of Molecular, Cellular and Developmental Biology at The University of Michigan, Ann Arbor USA. He also holds an appointment in the Department of Ecology and Evolutionary Biology. He received the B.S. degree from Rutgers University, and the Ph.D. from the University of California at Berkeley. He did postdoctoral work at the University of Alberta in Edmonton, Canada and at the University of California at Berkeley. His research focuses on thyroid hormone action in brain development, the role of stress hormones in amphibian metamorphosis, and the impact of polychlorinated biphenyls on amphibian development.

Hisao Seo

Director, Research Institute of Environmental Medicine, Nagoya University

Professor, Department of Endocrinology and Metabolism, Division of Molecular and Cellular Adaptation, Japan

1996 Graduated from School of Medicine Nagoya University. 1974 Appointed as Research Associate at Pritzker School of Medicine, University of Chicago. 1997 Appointed as Assistant Professor at the same school. 1980 Appointed as Assistant Professor, Research Institute of Environmental Medicine, Nagoya University. 1982 Associate Professor, 1991 Professor and 2000 to present, Director of the same institute. Serving as Board of Directors of Japan Endocrine Society and Japan Thyroid Association, Chairman of Programme Organizing Committee for the 12th International Thyroid Congress and 7th Asia-Oceania Thyroid Congress. Award from Japan Thyroid Association (Miyake Prize) and from Asia-Oceania Thyroid Association (Daiichi Prize). Research Interest: Identification of target genes for thyroid hormones and endocrine disrupters; Molecular mechanism involved in cellular adaptation to stress.

Ming-Jer Tsai

Charles C. Bell Professor, Molecular and Cellular Biology, Baylor College of Medicine, USA

He received his B.S. from National Taiwan University, his Ph.D. at the University of California, Davis and postdoctoral research at the University of Texas, M.D. Anderson Cancer Center. In 1973, he moved to Baylor College of Medicine as a faculty. In the last few years, he concentrated his research effort to elucidate the roles of bHLH transcription factors and nuclear orphan receptors in embryonic development. In addition, he also carries out research on the role of steroid receptor coactivators in prostate cancer.

Jacques Samarut

Research Director, Molecular and Cellular Biology, Ecole Normale Supérieure de Lyon, France

Received his Ph.D. at Claude Bernard University of Lyon, France. 1981-1982: Associate Professor, Rockefeller University, New York (Laboratory of Prof. H. Hanafusa) 1985 (three months): Laboratory of Prof. K. Toyoshima, Institute of Medical Science, Tokyo. 1987-1997: Director of the Laboratory of Molecular and Cellular Biology, Ecole Normale Supérieure de Lyon, France. 1997-1999: Director of Life Science Section of the CNRS, Paris, France. Since 1999: Director of Genome Center, Lyon, France. Since 2001: Professor of Biochemistry, Faculty of Medicine, Claude Bernard University of Lyon. Awards: Nakasone Gann Program Fellowship (Japan, 1985), Rosen Award Foundation for Medical Research (France, 1990), EMBO Member (1996), Silver Medal of CNRS (1997). Publications: More than 120 research papers 5 international patents.

Sheue-yann Cheng

Chief of Gene Regulation Section, Laboratory of Molecular Biology, National Cancer Institute, USA

Dr. Cheng is the Chief of Gene Regulation Section, Laboratory of Molecular Biology, National Cancer Institute, USA. Dr. Cheng received her Ph.D. from the University of California San Francisco Medical Center, San Francisco, CA. She is an internationally known molecular endocrinologist who has made fundamental contributions to the understanding of the molecular actions of thyroid hormones and their receptors. Recently, she has made the landmark discovery that the mutations of thyroid hormone receptor isoforms cause different diseases. She has received numerous awards for her work, including the Merit Award and the Technology Transfer Awards from NIH. She has authored over 140 publications. She has chaired and organized many national and international scientific meetings. She also plays a leading role in several national professional organizations.

Yasuo Sakuma

Professor & Department Head, Department of Physiology, Nippon Medical School, Japan

Received his M.D. in 1971 at Yokohama City University School of Medicine and his Ph.D., Physiology Program in 1975 at Yokohama City University Graduate School. 1975-1976 Research Associate, Department of Physiology II, Yokohama City University School of Medicine. 1976 Assistant Professor, Division of Physiology and Behavior, Behavior Research Institute, Gunma University School of Medicine. 1976-1981 Associate Professor, Gunma University School of Medicine. 1976-1978 Postdoctoral Fellow, Department of Physiological Psychology, Rockefeller University. 1976-1978 Postdoctoral Fellow, Department of Physiological Psychology, Rockefeller University. 1978-1980 Visiting Associate Professor, Department of Neurobiology and Behavior, Rockefeller University. 1981-1988 Associate Professor, Department of Physiology II, Niigata University School of Medicine. 1988-1993 Professor & Department Head, Department of Physiology I, Hirosaki University School of Medicine. 1993 to Present Professor & Department Head, Department of Physiology, Nippon Medical School. Honors and fellowships: Research Award, Yokohama City University Medical Association, 1983. Membership: The Physiological Society of Japan, Japan Endocrine Society, Japan Neuroscience Society, Japan Neuroendocrine Society, The Physiological Society (U.K.), American Physiological Society, Society for Neuroscience, International Society of Neuroendocrinology.

James G. Pfaus

Associate Professor, Center for Studies in Behavioral Neurobiology, Department of Psychology, Concordia University, Canada

His research is generally concerned with the neurochemical and molecular events that subserve sexual behavior and neuroendocrine functions. He is interested in the role of brain monoamine and neuropeptide systems in sexual excitement, arousal, inhibition, and copulatory behavior in laboratory animals, and the role played by steroid hormones and cell-signalling mechanisms in the neuronal and behavioral responses to primary and conditioned sexual stimuli, especially those that induce copulatory or mate preferences. The neurochemical and molecular consequences of steroid hormones and sexual stimulation are currently being examined using a combination of *in vivo* techniques such as voltammetry and microdialysis, and *ex vivo* techniques such as immunocytochemistry and *in situ* hybridization histochemistry. His laboratory is funded by operating grants from the Canadian Institutes for Health Research; Fonds FCAR (Québec); National Institutes of Health (USA), Natural Sciences and Engineering Research Council of Canada. In addition, He holds consulting grants from Eli Lilly, Pfizer, Palatin Technologies, and Trega Biosciences, for work on the sexual side-effects of different psychiatric medications and the identification of new drugs to treat various sexual dysfunctions.

<Academic History> Undergraduate: B.A. (Honors) in Psychology from American University, Washington, D.C., 1983. Graduate: M.A. (1986) and Ph.D. (1990) from the University of British Columbia in Biopsychology, Vancouver, BC, Canada.. M.A. research on the role of opioid receptors in female sexual behavior, conducted with Dr. Boris Gorzalka. Ph.D. research on the role of dopamine in appetitive and consummatory aspects of sexual behavior in male rats conducted with Drs. Tony Phillips and Chris Fibiger. Postdoctoral: NIH Postdoctoral Fellowship in Neurobiology and Behavior, The Rockefeller University, 1990-1992, with Dr. Donald Pfaff. Worked on the role of opioids in appetitive and consummatory aspects of sexual behavior in female rats, and how brain areas are activated in the female rat by different kinds of sexual stimulation. Academic Appointments: Assistant Professor, Center for Studies in Behavioral Neurobiology, Department of Psychology, Concordia University, 1992-97. Associate Professor, Center for Studies in Behavioral Neurobiology, Department of Psychology, Concordia University, 1997-present. Cross-appointment, graduate faculty, Department of Biology (1997), and Department of Chemistry and Biochemistry (1999). <Teaching> He teaches introductory undergraduate courses in Fundamentals of Behavioral Neurobiology and upper-level undergraduate courses in Hormones and Behavior and Neurobiology of Motivation. He also teaches graduate-level courses in Cell Signalling, Neuroendocrinology, and Psychopharmacology. He is currently supervising 8 graduate students, and 12 undergraduate research assistants in his laboratory.

Stuart A. Tobet

Associate Professor of Physiology, Department of Physiology, University of Massachusetts Medical School, USA

BS from Tulane University in Physiological Psychology and SM and Ph.D. from Massachusetts Institute of Technology in Neural and Endocrine Regulation. His Speciality is Developmental Neurobiology and Neuroendocrinology.

Yoshitaka Nagahama

Professor, Laboratory of Reproductive Biology, National Institute for Basic Biology, Okazaki National Research Institutes, Japan

1966 B.Sc., Faculty of Fisheries, Hokkaido University. 1968 M.Sc., Fisheries, Faculty of Fisheries, Hokkaido University. 1971 Ph.D., Fisheries, Faculty of Fisheries, Hokkaido University. 1970-71 Postdoctoral Fellow, Faculty of Fisheries, Hokkaido University. 1972-74 Postdoctoral Fellow, Department of Zoology, University of California, Berkeley. 1974-75 Postdoctoral Fellow, University of British Columbia, Vancouver, Canada. 1977 Research Assistant Endocrinologist, Department of Zoology, University of California, Berkeley. 1977-86 Associate Professor, Laboratory of Reproductive Biology, National Institute for Basic Biology. Holds current position since 1996.

Masatoshi Morita

Executive Acting Director, National Institute for Environmental Studies, Japan

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

Frederik S. vom Saal

Professor of Biology, University of Missouri-Columbia, USA

Frederick vom Saal is a professor in the division of biological sciences at the University of Missouri, USA. Dr. vom Saal received a Ph.D in neuroscience and postdoctoral training in reproductive physiology. He has served on grant review panels for governmental and nongovernmental organizations, and on the National Academy of Sciences Committee on Hormonally Active Agents in the Environment. He is an elected fellow of the American Association for the Advancement of Science. His research concerns the long-term consequences of exposure during fetal life to natural hormones, and both manmade and naturally occurring endocrine disrupting chemicals.

Margret Schlumpf

Senior Scientist, Institute of Pharmacology and Toxicology, University of Zurich, Switzerland

Her research work is focussing both on identification of new classes of chemicals (preferentially cosmetics) as endocrine disruptors and on evaluation of their risk assessment. In the *in vitro* and *in vivo* identification of new endocrine disruptors, working on improved testing conditions and endpoints. Risk assessment of newly identified endocrine disruptors is evaluated in an analysis of developmental toxicity done on classical developmental toxicity parameters including analysis of altered molecular mechanisms in the central nervous system and in peripheral organs. In the course of their studies they identified for the first time UV filters commonly used in cosmetics as being endocrine disruptors. She is a lecturer for Environmental Toxicology both at the University of Zurich and at the Federal Institute of Technology (ETH) in Zurich.

Andreas Kortenkamp

Senior lecturer, School of Pharmacy, University of London, UK

Andreas Kortenkamp read chemistry and philosophy at Muenster University, Germany and obtained his Ph.D. at Bremen University, Germany, with a thesis on the mode of action of carcinogenic chromium compounds. He is a Senior lecturer at the School of Pharmacy, University of London. His current research interests are in the area of mixture effects of endocrine disrupting chemicals.

Claudia Roncancio Peña

Scientific Officer, Environment DG, European Commission, Belgium

Scientific Officer responsible of the file of Endocrine Disrupters at the European Commission. She has gained a large expertise in Genetic Toxicology, human health issues and in scientific evaluation of data related to human hazards and risks assessments posed by endocrine disrupters at the university of Liège. She has been working with research and national administrations and universities. In addition, She was appointed in the panel of scientific expert in the 1st EEC technical meeting dedicated to the evaluation and the establishment of a list of known and potential endocrine disrupter substances.

Jorma Toppari

Academy Scientist, Departments of Pediatrics and Physiology, University of Turku, Finland

Dr. Jorma Toppari, M.D., Ph.D., is an Academy Scientist in the University of Turku, Finland, where he works in the Departments of Pediatrics and Physiology. He is also a visiting professor in the Department of Growth and Reproduction in the National University Hospital, Copenhagen, Denmark. He is a specialist in pediatric endocrinology. His research is focussed on development and function of male reproductive organs. He has contributed to several European studies on male reproductive health including studies on cryptorchidism, hypospadias, semen quality, and fertility.

Teruaki Iwamoto

Professor, Department of Urology · Center for Reproductive Medicine, St. Marianna University School of Medicine, Japan

Dr. Iwamoto received his M.D. from Yokohama City University, school of Medicine in 1981. His research interests include Urology, Andrology and Reproductive medicine. He worked as a visiting professor focusing on male infertility at Dr. Gagnon's lab in McGill University, Canada for 2 years from 1986. He joined St. Marianna University School of Medicine as an associate professor in 1989 and has been a professor of Department of Urology since 1996. Dr. Iwamoto has been working on clinical and basic research of male infertility and has been engaging in the international study for the effect of endocrine disruptors to male reproductive function, cooperating with Dr. Skakkebaek in Copenhagen University since 1997. Dr. Iwamoto also serves as a board member of scientific advisory meeting focusing on Endocrine Disruptors for the Ministry of Health, Labor and Welfare and for the Ministry of the Environment.

Niels Jørgensen

Physician, Department of Growth and Reproduction, Rigshospitalet, Denmark

Since 1989 worked within the field of andrology, both scientifically and clinically. Ph.D.-thesis regarding immature germ cells and their relation to testicular germ cell cancer. Since 1996 scientifically focused on male reproductive health, especially semen quality, the regional differences, time trends and possible explanations. Clinically received education within andrology and internal medicine-endocrinology.

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 disruptors and their toxic effects to humans and wildlife.

Elizabeth A. Guillette

Assistant Research Scientist, University of Florida, USA

Dr. Elizabeth A. Guillette is an Assistant Research Scientist at the University of Florida and Visiting Scholar at the Tulane/Xavier Center for Bioenvironmental Research. After many years as a Professor of Nursing, she received her Doctorate in Anthropology in 1992. She is known for her anthropological research regarding the interplay between contaminants and children's health. Her research techniques for investigating communities-at-risk are now published in book form and used internationally. Recognizing her leadership in innovative contaminant research, Canadian Broadcast Company produced an international feature video on her work and its implications. She has served as an expert witness to the United Nations and for governments on the international level. Her current research involves the impact of multiple chemicals on puberty and young adulthood.

Fumiki Hirahara

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

Director, Yokohama City University, International Clearinghouse Birth Defects Monitoring System (ICBDMS) Japan center, Japan

1977 received M.D. from Yokohama City University School of Medicine. 1979-Staff Physician, Department 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, Department 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: Periconceptual and perinatal teratology and dysmorphology, Clinical genetics.

Chisato Mori

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

Doctor of Medicine (M.D.) from Asahikawa Medical College in 1984, Doctor of Medical Science (D.Med.Sc; Ph.D) from Kyoto University, Graduate School of Medicine in 1989. 1984-1992:Research Associate, Department of Anatomy, Faculty of Medicine, Kyoto University, Kyoto, Japan. 1990-1992 Visiting Associate, Gamete Biology Section, Laboratories of Reproductive and Developmental Toxicology, National Institute of Environmental Health Sciences, National Institutes of Health, Research Triangle Park, North Carolina, 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-present Professor, Department of Bioenvironmental Medicine, Graduate School of Medicine, Chiba University, Japan.

John A. McLachlan

Weatherhead Distinguished Professor, Environmental Studies Professor, Pharmacology Director, Center for Bioenvironmental Research, Tulane and Xavier Universities, USA

John A McLachlan holds Professorships in Pharmacology at Tulane and Xavier Universities. He holds a University-wide Chair at Tulane as the Weatherhead Distinguished Professor of Environmental Studies. Professor McLachlan is also the Director of the Center for Bioenvironmental Research. His research has focused on the developmental endocrinology of estrogenic chemicals and hormones. Professor McLachlan, or *The Truly Dark Suffering Orchid*, as he is known in Japan, recently organized the Fourth Annual International Symposium on Environmental Hormones (e.hormone2002) as well as the First Minamata-New Orleans Workshop on Environmental Mercury. Both meetings featured numerous colleagues from Japan.

John P. Myers

Senior Advisor, United Nations Foundation, USA

Co-author of the best-selling book about endocrine disruption, "Our Stolen Future," Dr. John Peterson Myers earned a doctorate in the biological sciences from the University of California, Berkeley. Myers currently is Senior Advisor to the United Nations Foundation; publisher of the website www.OurStolenFuture.org; and founder of the Environmental Health Sciences Information Center. From 1990 through the end of 2001, Myers served as Director of the W. Alton Jones Foundation in Charlottesville, Virginia, guiding the foundation's philanthropic support of work to reduce the risks of nuclear war and to protect the global environment.

Richard A. Becker

Senior Director, Public Health Team, American Chemistry Council, USA

Dr. Becker earned his Ph.D. in Pharmacology and Toxicology from the University of California, Irvine. He is a Diplomat of the American Board of Toxicology, and began his career as a director a mammalian toxicology laboratory. He served for more than 10 years as a government scientist and department director in California's Environmental Protection Agency. Dr. Becker is currently the Senior Director of the Public Health Team of the American Chemistry Council. He works as the organization's lead toxicologist in addressing emerging health risk science issues, including hormonally active agents, sensitive subpopulations, and new and alternative test methods.