

**International Symposium on
Environmental Endocrine Disruptors '99
PROGRAM**

Thursday December 9, 1999

09:00 - 09:15 **WELCOME ADDRESS**

09:15 - 13:00 **Session 1 Testing and Hormone Responses**

Tohru Inoue
National Institute of Health Sciences, Japan
"Introductory Notes"

Robert J. Kavlock
U.S. Environmental Protection Agency
"Status of Implementation of the Endocrine Disruptor Screening Program
Developed by the U.S. Environmental Protection Agency"

Hiroaki Aoyama
Institute of Environmental Toxicology, Japan
"Validation of Reproductive and Developmental Toxicity Studies with
Organochlorine Pesticides"

Kevin Gaido
Chemical Industry Institute of Toxicology, U.S.A.
"Characterizing Chemical Interaction with Steroid Hormone Receptors"

Timothy Richard Zacharewski
Michigan State University, U.S.A.
"Molecular Basis of Endocrine Disruptor-Estrogen Receptor Interactions: A
Species Comparison"

Weida Tong
R.O.W. Sciences Inc., U.S.A.
"An Integrated Computational Approach for Prioritizing Potential Estrogenic
Endocrine Disruptors"

14:00 - 18:20

Session 2 Mechanisms of Action

*Session 2 and Session 3 are parallel sessions

Kenneth S. Korach

National Institute of Environmental Health Sciences (NIEHS), U.S.A.

"Studying Endocrine Disruptor Action and Toxicology in ER Knock-Out Mice"

Robert M. Bigsby

Indiana University, U.S.A.

"Xenoestrogens: Pharmacokinetics and Molecular Mechanisms"

Yoshiaki Fujii-Kuriyama

Graduate School of Science, Tohoku University, Japan

"Molecular Mechanisms of Function and Regulation of Ah receptor"

Wen Xie

Howard Hughes Medical Institute, U.S.A.

"Trans-Species Activation of Cytochrome P450 3A (CYP3A) Gene by Orphan Nuclear Receptor SXR"

Ken-ichiro Morohashi

National Institute for Basic Biology, Japan

"Expression and Function of Transcription Factors Implicated in Differentiation of the Gonad"

Shigeki Yuasa

Chiba University, Japan

"Both Spermatogenesis and Neurogenesis Are Defective in the Fyn-deficient Mice: A Prospect on the Possible Common Molecular Mechanisms Related to Environmental Endocrine Disruptors"

Barbara J. Davis

National Institute of Environmental Health Sciences (NIEHS), U.S.A.

"Endocrine Disrupting Activity of Phthalates"

14:00 - 18:20

Session 3 Fish Testing

*Session 2 and Session 3 are parallel sessions

Marie-Chantal Huet

OECD

"OECD Activity on Endocrine Disruptors Test Guideline Development"

Geoffrey Randall

AstraZeneca, U.K.

"The European Chemical Industry Research Programme into Endocrine Disruptors and Aquatic Organisms"

Bengt-Erik Bengtsson
Stockholm University, Sweden
"Endocrine Disruption Studies on Fish (*in vivo*) in the Nordic Countries"

J.P.Giesy
Michigan State University
"Effects of estrogenic substances on laboratory and feral fishes"

Tim Bowmer
TNO Nutrition & Food Research Institute, Netherlands
"Environmental Risk Assessment for Endocrine Active Substances
A Reality?"

Kenjiro Ozato
Nagoya University, Japan
"Medaka as a Model for Endocrine-Disrupting Substance Testing"

Hirofumi Yokota
Chemicals Evaluation and Research Institute, Japan
"Development of Full Life-Cycle Test for Endocrine Disruptors Using
Japanese Medaka (*Oryzias latipes*)"

Yuji Oshima
Kyushu University, Japan
"Combined Effects of Environmental Endocrine Disruptors on Reproductive
Success and Suppression of Sexual Behavior in Japanese Medaka, *Oryzias
latipes*"

18:45 - 21:00 Night Session Dose-response

Richard E. Peterson
University of Wisconsin, U.S.A
"Developmental Male Reproductive Toxicity of Dioxin and DI(2-ethylhexyl)
Phthalate in the Rat"

James C. Lamb, IV
BBL Sciences, U.S.A.
"Assessing the Human Health Risks from Exposures to Hormonally Active
Agents"

Seiichiro Ohsako
National Institute for Environmental Studies, Japan
"Effects of Low-Dose Bisphenol-A on Rat Spermatogenesis"

Frederick S. vom Saal
University of Missouri-Columbia, U.S.A.
"Very Low Doses of Bisphenol A and Ethinyl Estradiol Cause
Developmental Abnormalities in Mice"

Friday December 10, 1999

09:00 - 12:40 **Session 4 Effects on Wildlife / Human Exposure**

*Session 4 and Session 5 are parallel sessions

Taisen Iguchi
Yokohama City University, Japan
"Developmental Effects of Estrogens in Animals"

John Alan McLachlan
Tulane and Xavier Universities, U.S.A.
"Evolutionary Conservation of Estrogen Response"

D. Michael Fry
University of California-Davis, U.S.A.
"Estrogenic Endocrine Disruptors Impair Brain Development and Reproductive Behavior of Zebra Finches and Japanese Quail"

Peter Matthiessen
Centre for Environment, Fisheries and Aquaculture Science (CEFAS), U.K.
"The Effects of Endocrine Disrupters on Fish in the United Kingdom"

Maria Cristina Fossi
University of Messina / University of Siena, Italy
"Biomarkers as Diagnostic and Prognostic Tools for Wildlife Risk Assessment about Endocrine Disrupters"

Kevin C. Jones
Lancaster University, U.K.
"Sources, Trends and Foodchain Transfers of Persistent Organic Contaminants: Quantifying the Link Between Emissions, Air Concentrations and Human Exposure."

09:00 - 12:30 **Session 5 Activities in Japan**

*Session 4 and Session 5 are parallel sessions

Gen Oi
National Institute for Environmental Studies, Japan
"Social Medicine and Endocrine Disruptors"

Hiroaki Shiraishi
National Institute for Environmental Studies, Japan
"Some Aspects in Chemical Analysis of Endocrine Disruptors"

Takashi Umeda
Teikyo University, Japan
"Sperm Quality of the Japanese General Population"

Osamu Tsutsumi
Tokyo University, Japan
"Low Dose Effects of Endocrine Disruptors on Preimplantation Embryo Development"

Katsutoshi Yoshizato
Hiroshima University, Japan
"Detection of Endocrine-Disturbing Substances by Transgenic Frogs"

Shinya Hashimoto
Tokyo University of Fisheries, Japan
"Elevated Serum Vitellogenin and Gonadal Abnormalities in Wild Male Flounder from Tokyo Bay, Japan"

Tetsuji Nagao
Food and Drug Safety Center, Japan
"Effects of Prenatal and Postnatal Exposure to Styrene Dimers and Trimers on Reproduction in Rats"

Ken Takeda
Science University of Tokyo, Japan
"Effect of Diesel Exhaust on the Murine Male Reproductive System and Evaluation of its Endocrine Disrupting Activity"

12:40 - 14:00 **POSTER SESSION**

14:00 - 18:00 **Session 6 Potential Effects on Human Health**

*Session 6 and Session 7 are parallel sessions

Herman Adlercreutz
Folkhälsan Research Center, University of Helsinki, Finland
"Naturally Occurring Endocrine Substances in the Diet and in Some Commercial Food Products"

Larry Lewis Needham
Centers for Disease Control and Prevention, National Center for Environmental Health, U.S.A.
"Assessing Exposure in Epidemiological Studies"

Peter Hauser
Mental Health Clinical Center, U.S.A.
"Resistance to Thyroid Hormone: Implications for Neurodevelopmental Research on the Effects of Thyroid Hormone Disruptors."

Shunichi Yamashita
Nagasaki University School of Medicine Atomic Bomb Disease Institute,
Japan
"Thyroid Disease and Environmental Factors; Problems of Risk Assessment"

Niels E. Skakkebaek
Copenhagen University Hospital / Rigshospitalet, Denmark
"Recent Trends in Male Reproductive Health: Evidence of Increasing Rates
in Testicular Cancer and Low Sperm Counts among Men from the General
Population"

Harry Fisch
Columbia University, U.S.A.
"Are Sperm Counts Changing?"

Yutaka Nakahori
The University of Tokushima, Japan
"Spermatogenic Ability is Different among Males in Different Y Chromosome
Lineage"

14:00 - 18:00

Session 7 Basis Biology

*Session 6 and Session 7 are parallel sessions

Yoshitaka Nagahama
National Institute for Basic Biology, Japan
"Introduction"

Jörg Oehlmann
Internationales Hochschul Institut Zittau, Germany
"The Mechanisms of TBT-induced Imposex in Marine Neogastropods"

Peter Thomas
University of Texas-Austin, U.S.A.
"Xenobiotic Chemical Interference with Nongenomic Steroid Actions"

Bruce Blumberg
University of California-Irvine, U.S.A.
"Deformed Frogs and Environmental Retinoids"

David Crews
University of Texas-Austin, U.S.A.
"The Slider Turtle: An Animal Model for the Study of Low Doses and
Mixtures of Endocrine-Disrupting Compounds"

Mary Ann Ottinger
University of Maryland, U.S.A.
"Behavioral Implications of Contaminant Exposure: Neuroendocrine
Mechanisms"

Andrea C. Gore

Mount Sinai School of Medicine, U.S.A.

"Effects of Environmental Toxicants on GnRH Gene Expression in Hypothalamic Neurons"

Saturday December 11, 1999
(Open to the Public Session)

9:30 – 10:00 **Greetings**

10:00 - 12:10 **Part 1 Policy Makers' Approach to Endocrine Disruptors**

Hiroshi Hase
Member of the House of Councilors, Japan
"How the Liberal Democratic Party Takes Measures for the Problem of Endocrine Disruptors and Future Issues"

Shuichi Kato
Member of the House of Councilors, Japan
"How the New Komeito Takes Measures for the Problem of Endocrine Disruptors (2)"

Kousaku Uchida
Head, Health and Food Chemistry Division, environmental Health Bureau,
Ministry of Health and Welfare, Government of Japan
"How Ministry of Health and Welfare Takes Measures for the Problem of Endocrine Disrupting Chemicals"

Yoshiro Kaburagi
Special Advisor, Environmental Health and Safety Division, Environmental
Health Department, Environment Agency, Government of Japan
"Recent Topics on Chemical Substances"

Chiharu Tohyama
National Institute for Environmental Studies, Japan
"How Harmful and How Dreadful are Dioxines?"

Peter Hinchcliffe
Department of the Environment, Transport and the Regions (DETR), U.K.
"Activities of U.K. Government on Endocrine Disrupters"

Michael J. Mac
U.S. Geological Survey, Department of the Interior
"Activities of US Interagency Work Group on Endocrine Disruptors"

13:00- 15:30 **Part 2 Researchers' Approach to Endocrine Disruptors**

Paolo Mocarelli
University of Milano-Bicocca, Italy
"Dioxin Health Effects on Humans Twenty Years after Seveso"

Hans-Ulrich Hartenstein
E&EC GmbH, Germany
"Technologies to Reduce Emissions of Dioxins and Furans from Waste Incinerators"

Louis J. Guillette Jr.
University of Florida, U.S.A.
"Endocrine Disruptors in Wildlife: Multiple Mechanisms-Multiple Species"

Robert J. Kavlock
U.S. Environmental Protection Agency
"The Global Endocrine Disruptor Inventory and State of the Science Assessment "

Joseph G. Vos
National Institute of Public Health and the Environment Laboratory for Pathology and Immunobiology, Netherlands
"Human and Wildlife Health Effects of EDC's: Opinion of the European Union Scientific Committee on Toxicity, Ecotoxicity, and the Environment"

15:45- 17:30 Part 3 Panel Discussion

Moderator : Tsuguyoshi Suzuki
 Chairman, Japan Society of Endocrine Disrupter Research

Panelists : John D. Graham
 Harvard School of Public Health, U.S.A

Taisen Iguchi
Yokohama City University, Japan

John Peterson Myers
W.Alton Jones Foundation, U.S.A

Yozo Nishikawa
Mitubishi Chemical Co., Ltd

Hirozo Ueda
Head, Environmental Health and Safety Division, Environmental Health Department, Environment Agency, Government of Japan