
エコチル調査 国際シンポジウム in 北九州

Japan Environment and Children's Study (JECS) International Symposium in Kitakyushu, Japan

講演者紹介

Biography

Steven Hirschfeld (医師・医学博士)

米国国立衛生研究所米国子ども調査理事長

学歴：1983：コロンビア大学医学部卒業

1983：ニューヨーク大学大学院博士課程修了（細胞生物学）

職歴：

1983～1984：カリフォルニア大学サンフランシスコ校小児科 初期研修

1984～1986：カリフォルニア大学サンフランシスコ校小児科 研修医

1986～1987：カリフォルニア大学サンフランシスコ総合病院（地域外傷センター）小児科
チーフレジデント

1987～1990：米国国立衛生研究所小児保健発達研究所 医学研究員

1990～1995：米国国立衛生研究所国立癌研究所小児科 臨床研究員

（90年7月～91年7月：常勤臨床サービス、それ以外の期間は非常勤臨床サービス）

1995～2003：米国食品医薬品局医薬品評価研究センター抗腫瘍薬部門 医学責任者

1995～2006：米国国立衛生研究所国立癌研究所エイズ・悪性腫瘍部門および小児腫瘍部門
担当医および客員研究員

1998～2003：米国食品医薬品局医薬品評価研究センター小児プログラム 医学責任者

2003～2006：米国食品医薬品局生物学的製剤評価研究センター細胞・組織・遺伝子治療事務局
医学責任者

2006～現在：米国国立衛生研究所小児保健発達研究所 臨床研究副所長

2009～2011：米国国立衛生研究所 National Children's Study（米国子ども調査）理事長代理

2012～現在：米国国立衛生研究所 National Children's Study（米国子ども調査）理事長



Steven Hirschfeld, M.D., Ph.D.

Director, National Children's Study, National Institutes of Health

CITIZENSHIP : U.S.A.

EDUCATION : B.A., M.D. Columbia University, 1983
M.S., Ph.D. Cell Biology, New York University, 1983

EMPLOYMENT :

- 1983-1984 Intern, University of California, San Francisco, Pediatrics
- 1984-1986 Resident, University of California, San Francisco, Pediatrics
- 1986-1987 Chief Resident in Pediatrics, San Francisco General Hospital, University of California, San Francisco, Ca. (regional trauma center)
- 1987-1990 Medical Staff Fellow, National Institutes of Child Health and Human Development, National Institutes of Health, Bethesda, Md.
- 1990-1995 Clinical Associate and Attending Physician, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, Md. (Full Time Clinical service 7/90-7/91; otherwise part time clinical service)
- 1995-2003 Medical Officer, Division of Oncologic Drugs, Center for Drug Evaluation and Research, Food and Drug Administration, Rockville, Md.
- 1995-2006 Attending Physician and Guest Researcher, Human AIDS and Malignancy Branch and Pediatric Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, Md.
- 1998-2003 Medical Officer, Pediatric Program, Center for Drug Evaluation and Research, Food and Drug Administration, Rockville, MD
- 2003-2006 Medical Officer, Office of Cellular, Tissue and Gene Therapy, Center for Biologics Evaluation and Research, Food and Drug Administration, Rockville, MD
- 2006- present Associate Director for Clinical Research National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD
- 2009-2011 Acting Director, National Children's Study, National Institutes of Health, Bethesda, MD
- 2012-present Director, National Children's Study, National Institutes of Health, Bethesda, MD

Marike Kolossa-Gehring (博士)

ドイツ連邦環境庁環境衛生部毒物・健康関連環境モニタリング室

1991年キール大学にて毒性学に関する論文で博士号を取得。1992年連邦環境庁入庁。毒物関連分野および健康・環境保全分野に従事。

毒物・環境関連健康モニタリング室、室長として、同国の健康関連環境モニタリング構想の基礎となるドイツ環境サーベイ、およびドイツ試料バンクを先導。2010年には、ドイツ化学工業協会と環境・自然保護・核安全省の連携プロジェクトであるヒトバイオモニタリングについて、これを支援する取組みの運営を担当。

ヨーロッパにおけるヒトバイオモニタリング調査を策定する DEMOCOPHES および COPHES (全欧規模ヒトバイオモニタリング実施に向けたコンソーシアム) メンバー。

2006年から2007年まで、経済協力開発機構環境ホルモン試験・評価審議会、副議長、2008年から2010年まで議長。ヒトバイオモニタリング委員会、および連邦環境庁室内大気汚染衛生臨時専門委員会のドイツ連邦環境庁メンバー。



Dr. Marike Kolossa-Gehring

Federal Environment Agency, Department of Environmental Hygiene, Section Toxicology, Health related Environmental Monitoring, Berlin, DE

Dr. Marike Kolossa-Gehring received her Ph.D. based on a toxicological thesis in 1991 from the University of Kiel. She joined the German Environment Agency in 1992 where she worked in the field of toxicology and protection of health and the environment.

She is heading the section toxicology, health related environmental monitoring where she leads the German Environmental Survey and the German Specimen Bank which are the basis for the German concept of a health-related environmental monitoring. In 2010 she took over the management for a German initiative to support human biomonitoring which is a co-operation project between the German Chemical Industry Association and the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

She is member of DEMOCOPHES and COPHES, the Consortium to Perform Human Biomonitoring on a European Scale preparing a human biomonitoring study for Europe. From 2006 to 2007 she was vice-chair and from 2008 to 2010 chair of the OECD Endocrine Disruptor Testing and Assessment Advisory Board, UBA-member of the Human Biomonitoring Commission and the ad hoc group Toxicology of the Indoor Air Hygiene Commission of the Federal Environmental Agency.

Ruth A. Etzel (医師・医学博士)

世界保健機関 (WHO) 公衆衛生・環境部 (スイス、ジュネーブ) 環境保健主任研究官

ウィスコンシン大学医学部を卒業し、チャペルヒル (米国、ノースカロライナ州) にて小児科および予防医学科を研修。小児科を研修したのち、チャペルヒルにてロバート・ウッド・ジョンソン財団の医学奨学生となる。1985年ノースカロライナ大学公衆衛生学大学院疫学専攻修了。学術博士。その間、乳幼児の受動喫煙曝露による健康問題の研究に大変興味を持つ。小児におけるタバコ曝露バイオマーカーとしてのコチニンの使用を初めて研究した論文を Robert Greenberg 教授と共著。その画期的な研究が New England Journal of Medicine に掲載されて以来 25 年間、疫学調査においてコチニンをタバコ曝露の標準評価手法とする取組みに関して影響を与えてきた。小児のタバコ曝露を軽減する国内外の取組みでも卓越した指導力を発揮。

米国公衆衛生局幹部として、疾病管理予防センター (Founding Chief of the Air Pollution and Respiratory Health Branch/ 大気汚染・呼吸器健康部門創設長)、農務省 (疫学・リスク評価課長 /Director of the Division of Epidemiology and Risk Assessment)、インディアン衛生局 (アラスカ先住民医療センター研究部長) など、数多くの公共部門で指導的役割を担当。小児の受ける環境リスクを世間に知らせ、解決策に向けて協力的に取り組んできた勇敢な指導者である。1989年に、塗り替えを施した家屋内で水銀蒸気に曝露した米国の小児が肢端疼痛症を発症した例が発見された際、水銀曝露の程度を評価する重要な調査を調整。さらに米国環境保護庁 (EPA) に対し、ラテックス塗料から水銀を除去するよう強く要請。これを受けた EPA は、ただちに室内用ラテックス塗料への水銀化合物添加を中止することで米国の塗料会社との合意に達した。

Pediatric environmental health (2011年に第3版出版) 創刊者兼編集者。数多くの小児科医が、環境要因による小児の疾患について、その発見、診断、治療および予防方法を学ぶのに、影響力のある本著書を役立ててきた。

ジョージ・ワシントン大学公衆衛生大学院非常勤講師。小児科および予防医学科認定専門医。The American Board of Preventive Medicine (米国予防医学委員会) に9年間勤務。乳幼児の肺出血と、室内環境に存在するクロカビやその他の毒性カビ曝露との関連を発見したことで、米国公衆衛生局から Clinical Society Award を受賞。そのほか、米国環境保護庁(EPA) より 2007 Children's Environmental Health Champion Award、米国公衆衛生局より Distinguished Service Award、米国疫病対策センター (CDC) より Don C. Mackel Memorial Award、Arthur S. Flemming Award など、科学関連の主要な賞を数多く受賞。疫学研究では、喘息発作の環境要因の特定や室内外大気汚染曝露による健康影響の検討に重点を置いている。WHO では、子どもの健康と環境に関する出生コホート調査のハーモナイゼーションに向けた国際的取組の促進を懸命に行っている。



Ruth A. Etzel, MD, PhD

Senior Officer for Environmental Health Research, Department of Public Health and Environment, World Health Organization

Dr Etzel is the Senior Officer for Environmental Health Research in the Department of Public Health and Environment at the World Health Organization in Geneva, Switzerland. She completed medical school at the University of Wisconsin and residencies in Pediatrics and Preventive Medicine in Chapel Hill, North Carolina, USA. After completing a pediatric residency, she was a Robert Wood Johnson Clinical Scholar in Chapel Hill, and received her PhD in Epidemiology from the University of North Carolina School of Public Health in 1985. While there, she became very interested in studying the health effects of exposure to second-hand smoke among infants. With Professor Robert Greenberg, she co-authored the first study to use cotinine as a biological marker of exposure to tobacco smoke in children. In the 25 years since their groundbreaking study was published in the *New England Journal of Medicine*, she has been influential in working to make cotinine a standard method for assessing tobacco exposure in epidemiological studies. She has also been a strong leader in national and international efforts to reduce children's exposure to tobacco smoke.

As a Commissioned Officer in the United States Public Health Service, she served in numerous public-sector leadership positions including: Centers for Disease Control and Prevention (Founding Chief of the Air Pollution and Respiratory Health Branch), Department of Agriculture (Director of the Division of Epidemiology and Risk Assessment) and Indian Health Service (Research Director at the Alaska Native Medical Center). Dr Etzel is a courageous leader in bringing environmental risks to children to public attention and working collaboratively towards solutions. During 1989, after a single case of acrodynia was identified in a US child who was exposed to mercury vapour inside a newly-painted house, she coordinated an important study to assess the extent of the mercury exposure and then made a compelling case to the US Environmental Protection Agency (EPA) for the removal of mercury from latex paints. In response, the EPA quickly reached an agreement with the US paint companies to stop the addition of mercury compounds to interior latex paints.

Dr Etzel is the founding editor of *Pediatric Environmental Health* (a 3rd edition of which was published in 2011). This influential book has helped to train thousands of doctors who care for children about how to recognize, diagnose, treat and prevent illness in children from hazards in the environment. She serves on the adjunct faculty at the George Washington University School of Public Health and Health Services. In addition to being board-certified in Pediatrics, Dr Etzel is also board-certified in Preventive Medicine and served for 9 years on the American Board of Preventive Medicine. Dr Etzel has received numerous major scientific awards, including the 2007 Children's Environmental Health Champion Award from the US EPA, the Distinguished Service Award from the US Public Health Service, the Don C. Mackel Memorial Award from US CDC, the Arthur S. Flemming Award, and the Clinical Society Award from the US Public Health Service Commissioned Officers Association for her discovery of the association between infant pulmonary hemorrhage and exposure to *Stachybotrys chartarum* and other toxigenic molds in the indoor environment. Her epidemiologic research interests include identifying the environmental precipitants of asthma attacks and studying the health effects of exposure to indoor and outdoor air pollutants. At WHO, she enthusiastically promotes international efforts towards harmonization of birth cohort studies of child health and the environment.

佐藤 洋

エコチル調査コアセンター長・国立環境研究所理事

東北大学医学部卒業。医学博士。1989（平成元）年から東北大学医学部教授。1998（平成9）年より東北大学大学院医学系研究科教授（機構改組による）。

2011年（平成23年）より国立環境研究所理事。

日本産業衛生学会指導医（第151号）、日本医師会環境保健委員会委員、日本学会議第19期会員（平成17年9月まで）、食品安全委員会専門委員、中央環境審議会委員、環境科学会理事、日本衛生学会理事長などを務める。

日本衛生学会賞、（社）環境科学会学術賞、（社）日本医師会優功賞、環境保全功労賞、厚生労働省労働基準局局長賞を受賞。

Hiroshi SATOH

Director, National Centre for Japan Environment and Children's Study

Vice President, National Institute for Environmental Studies

Education

- Ph.D., Tohoku University Graduate School of Medicine, Japan, 1979
- M.D., Tohoku University School of Medicine, Japan, 1974

Professional Experience

- Tohoku University Graduate School of Medicine, Environmental Health Sciences, Professor, 1989-2011
- Hokkaido University School of Medicine, Department of Hygiene, Associate Professor, 1985-1989
- Fukushima Medical University, Department of Hygiene, Assistant Professor, 1981-1985
- The University of Rochester, NY, USA, Toxicology and Environmental Health, Research Fellow, 1979-1981
- Tohoku University School of Medicine, Department of Public Health, Research Associate, 1979



岸 玲子

北海道大学環境健康科学研究教育センター長

1971年 北海道大学医学部卒業

1977年 北海道大学大学院医学研究科社会医学専攻博士課程修了

1977年 札幌医科大学公衆衛生学講座助手

1979年-1980年 米国マイアミ大学 adjunct assistant professor

1989年-1990年 米国ハーバード大学公衆衛生大学院 (Master of Public Health 取得)

1997年-2010年 北海道大学医学部 (現 医学研究科) 公衆衛生学講座 (現 分野) 教授

2010年 同大学環境健康科学研究教育センター・センター長 (特任教授)

現在に至る

賞等

2002年 日本産業衛生学会賞授与

2009年 日本医師会医学賞授与

2011年 日本衛生学会賞授与

Reiko KISHI

Professor and Director, Hokkaido University Center for Environmental and Health Sciences

Education

1989-1990: MPH (Master of Public Health), Harvard School of Public Health

1977: PhD, Graduate School of Medicine, Hokkaido University (Social Medicine)

1971: MD, Hokkaido University School of Medicine

Employment

2010: Professor and Director, Hokkaido University Center for Environmental and Health Sciences

1997-2010: Professor, Department of Public Health, Hokkaido University School of Medicine

1979-1980: Adjunct Assistant Professor, Miami University, USA

1977: Assistant, Department of Public Health, Sapporo Medical University

Awards

2011: Japanese Society for Hygiene Award

2009: Medical Award of the Japan Medical Association

2002: Outstanding Research Award, Japan Society for Occupational Health

仲井邦彦

東北大学医学系研究科・環境遺伝医学総合研究センター・発達環境医学分野教授

北海道大学獣医学部卒業、北海道大学環境科学研究科・社会環境学専攻修了（学術博士）。コーネル大学医学部博士研究員、北海道赤十字血液センター研究部、東京大学医科学研究所・細胞プロセッシング研究部門助手、東北大学医学系研究科・環境保健医学分野助手、講師、准教授を経て、2010年8月より東北大学医学系研究科・環境遺伝医学総合研究センター・発達環境医学分野教授。2001年より環境由来化学物質の健康影響を検証するため、出生コホート調査を進めており、エコチル調査でも宮城ユニットセンターのメンバーとしてエコチル調査に参加。

Kunihiko NAKAI

Professor, Division of Development and Environmental Medicine, Environment and Genome Research Center, Tohoku University Graduate School of Medicine

Professor Nakai graduated from the Faculty of Veterinary Medicine, Hokkaido University. Received his PhD from Hokkaido University Graduate School of Environmental Sciences, Department of Social Environmental Science. Worked at Cornell University Medical College, Department of Pharmacology, as a postdoctoral fellow; Hokkaido Red Cross Blood Center, Research Section; and at the Institute of Medical Sciences, University of Tokyo, Department of Cell Processing, as an assistant. After serving in the Department of Environmental Health Sciences, Tohoku University Graduate School of Medicine, as an assistant, a lecturer, and then an associate professor, he became a professor in the Division of Development and Environmental Medicine, Environment and Genome Research Center, Tohoku University Graduate School of Medicine in August 2010. He has been developing a birth cohort study to investigate the health effects of environmental chemical substances since 2001. Also took part in the Japan Environment and Children's Study (JECS) as a member of the Miyagi Unit Center.



川本俊弘

福岡ユニットセンター長・産業医科大学医学部衛生学講座教授

山口大学医学部卒業。アメリカ合衆国ミシガン州立大学、カリフォルニア大学デービス校を経て産業医科大学。1996年より産業医科大学医学部衛生学講座教授（現在に至る）。

2008年小児環境保健疫学調査に関するワーキンググループ座長（2010年3月まで）。2009年より名古屋大学客員教授（現在に至る）。2010年4月より子どもの健康と環境に関する全国調査（エコチル調査）福岡ユニットセンター長（現在に至る）。

環境省中央環境審議会大気部会専門委員、厚生労働省薬事・食品衛生審議会臨時委員、Diplomate of American Board of Toxicology (DABT)、Associate Editor, Encyclopedia of Environmental Health, Elsevier を務める。

日本産業衛生学会賞（2007年4月）を受賞。

Toshihiro KAWAMOTO

Director, Fukuoka Unit Center

Professor, Department of Environmental Health, University of Occupational and Environmental Health School of Medicine

Professor Kawamoto graduated from Yamaguchi University School of Medicine. After working at Michigan State University and at the University of California, Davis, USA, he started his career at the University of Occupational and Environmental Health. Has Been in his present position since 1996. Chairman of the Working Group for pediatric Environmental Health Epidemiology from 2008 to March 2010. Associate Professor at Nagoya University since 2010. Director of the Fukuoka Unit Center, the Japan Environment and Children's Study (JECS) since April 2010. Expert commissioner of Air Quality Bureau, Central Environmental Council, Ministry of Environment. Ad Hoc Commissioner of Pharmaceutical Affairs and Food Sanitation Council, Ministry of Health, Labour and Welfare. Diplomate of American Board of Toxicology (DABT). Associate Editor and Encyclopedia of Environmental Health, Elsevier. Given the Japan Society for Occupational Health Award in April 2007.

山下俊郎

北九州市環境局環境監視部長

1979年3月 九州大学大学院合成化学専攻修了。工学博士

1979年4月 北九州市役所入職

環境局環境科学研究所、建設局水質管理課、環境局大気課、

環境管理課などを経て2010年4月より現職（環境局環境監視部長）

その間、1995年7月：学位取得（工学博士、九州工業大学）

2002年4月～2004年3月：JICAの大気汚染専門家として中国北京市の日中友好環境保全センターへ派遣

Toshiro YAMASHITA

Director, Control and Inspection Department, Environmental Bureau, Kitakyushu

Dr. Yamashita received his master degree from Kyushu University Graduate School of Engineering, Department of Synthetic Chemistry in March 1979 and then joined the city of Kitakyushu in April. Worked at the Institute of Environmental Sciences, Environmental Bureau; Water Quality Control Division, Construction Bureau; and at the Air Division and Environmental Control Division, Environmental Bureau. Was appointed to his present position (Director of Control and Inspection Department, Environmental Bureau) in April 2010. During this period, (received doctoral degree from Kyushu Institute of Technology in July, 1995) from April 2002 to March 2004, was sent to the Sino-Japan Friendship Center for Environmental Protection, Beijing, China, as a JICA expert on air pollution.



山縣然太郎

甲信ユニットセンター長、山梨大学大学院医学工学総合研究部社会医学講座教授

山梨医科大学卒業。山梨医科大学医学部助手、助教授を経て、1999年に教授（その後山梨大学と統合）。2007年から保健管理センター長を兼任。1991年から92年に米国カリフォルニア大学小児科人類遺伝学教室に留学。日本疫学会理事。日本公衆衛生学会理事。厚生労働省の「健やか親子21検討委員会」委員など国、自治体の委員を多数経験。専門は公衆衛生学、疫学、人類遺伝学。20年以上にわたる妊娠期からの母子保健縦断調査を地域と連携して行っている。ゲノム研究など先端科学と社会との接点も研究テーマ。2010年4月よりエコチル調査甲信ユニットセンター長。エコチル調査戦略広報委員長。

Zentaro Yamagata

Director, Koshin Unit Center

Department of Health Sciences, Interdisciplinary Graduate School of Medicine and Engineering, University of Yamanashi

Professor Yamagata graduated from Yamanashi Medical University. After working as an assistant and assistant professor in the Faculty of Medicine, Yamanashi Medical University, he became a professor at the university (merged with the University of Yamanashi) in 1999. Professor Yamagata has also been a director of the healthcare center at the university since 2007. He studied at the department of Pediatrics, institute for Human Genetics, University of California, United States, from 1991 to 1992. Professor Yamagata is a board member of the Japan Epidemiological Association and a board member of the Japanese Society of Public Health. He has extensive experience working on committees of the national and local governments, including the Healthy and Happy Family 21 exploratory committee by the Ministry of Health, Labour and Welfare. He specializes in public health, epidemiology, and human genetics. He has conducted a longitudinal survey on maternal and child health for over 20 years in collaboration with the community. He also studies the association between advanced science such as genome research and society. Professor Yamagata is the director of the Koshin Unit Center of the Japan Environment since April 2010, and Children's Study (JECS) and serves as the chairperson of the JECS Strategic Publicity Committee.

戸田英作

環境省環境保健部環境リスク評価室長

1987年環境庁入庁。2001年から2004年までOECD環境保健安全課。

2007年から2009年まで環境省化学物質審査室長。この間、OECDテストガイドライン作業部会議長、国際化学物質管理会議副議長を務める。

2010年8月より環境省環境リスク評価室長。子どもの健康と環境に関する全国調査（エコチル調査）を含め、化学物質の環境リスク評価を担当。

Eisaku TODA

Director, Environmental Risk Assessment Office, Ministry of the Environment, Japan

Mr Eisaku Toda joined the Ministry of the Environment (then Environment Agency) in 1987. Worked in Environment, Health and Safety Division of OECD from 2001 to 2004. Director of the Chemicals Evaluation Office of the Ministry of the Environment from 2007 to 2009. During this period also served as Chairman of the OECD Test Guidelines Working Group, and Vice-President of the International Conference for Chemicals Management. Since August 2010, Director of the Risk Assessment Office, responsible for environmental and health risk of chemicals including the Japan Environment and Children's Study.





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