

JOINT FAO/WHO MEETING ON PESTICIDES
RESIDUES (JMPR) – 12/21 SEPTEMBER 2017
GENEVA, SWITZERLAND

List of experts

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The list of participating experts, a summary of relevant interests disclosed by such experts, and any appropriate mitigation measures taken by FAO and WHO relating to the management of conflicts of interests, will be reported publically in accordance with FAO and WHO practice.

- **BOOBIS Alan**

Alan Boobis is currently Professor of Toxicology in the Faculty of Medicine at Imperial College London. He has been a member of Imperial College London for over 40 years. His research interests include mechanistic toxicology, chemical risk assessment and food safety. He has published over 240 original research papers. He is a member of several national and international advisory committees, the Committee on Toxicity (chair), the WHO Study Group on Tobacco Product Regulation (TobReg), JECFA (veterinary residues) and JMPR. He has been a member of the UK Advisory Committee on Pesticides, Committee on Carcinogenicity, the EFSA CONTAM Panel and the EFSA PPR Panel. He is a member and a past chairman of the Board of Trustees of ILSI (International Life Sciences Institute) HESI, vice-president of ILSI Europe and chair of ILSI. Awards include fellowship of the Society of Biology, the British Toxicology Society (BTS) and the British Pharmacological Society, the BTS John Barnes Prize Lectureship, honorary membership and Merit Award of EUROTOX, the Royal Society of Chemistry Toxicology Award, the US SOT Arnold J Leeman Award and Officer of the British Empire (OBE).

- **BUSSCHERS Marloes**

Marloes Busschers studied Biology at Wageningen University where she graduated in 1994. For 3 years she worked as a Study Director acute and short term toxicity studies at Notox in 's Hertogenbosch (now WIL Research). Thereafter she worked for 6 years at TNO in Zeist, as a toxicologist and risk assessor human toxicology. In 2005 she joined Ctgb, the Dutch Board for the Authorisation of Plant Protection Products and Biocides, as a toxicologist Human Risk Assessment, where she was responsible for human toxicology and risk assessments for operators, workers, bystanders and residents, and was participating as an expert in the EFSA expert meetings. She transferred to Charles River Laboratories in August 2017, where she started working as a Regulatory Affairs manager human toxicology. She was advisory member of the Dutch Health Councils temporary committee Residents and Plant Protection Products. She is a registered toxicologist at the Dutch Society for toxicology and EUROTOX.

- **CERNIGLIA Carl**

Dr. Carl E. Cerniglia is a Senior Biomedical Research Service (SBRS) Research Microbiologist, Director of the Division of Microbiology at the National Center for Toxicological Research (NCTR), US Food and Drug Administration (FDA) and elected member of the American Academy of Microbiology. He is also an adjunct Professor in the Department of Pharmacology and Toxicology

at the University of Arkansas Medical Sciences, Little Rock, AR. Dr. Cerniglia leads a team at the NCTR that has impacted public health in a variety of research areas including food safety, antimicrobial resistance, environmental biotechnology, nanotechnology, women's health and human intestinal microbiome-host interactions. Dr. Cerniglia's research has resulted in over 400 scientific publications and numerous book chapters and review articles. His research has been frequently highlighted in the scientific and popular press. Dr. Cerniglia has made more than 400 invited presentations at national and international conferences and meetings and is also an ASM Foundation of Microbiology lecturer. The research achievements of Dr. Cerniglia has been recognized by national and international awards from the Food and Drug Administration, American Pharmaceutical Association, International Society of Toxicity Testing, American Society for Microbiology, and American Academy of Microbiology and U.S. Department of Health and Human Services. Dr. Cerniglia was recently awarded the Silver Medal by the World Health Organization for outstanding scientific contribution to the Joint Expert Committee on Food Additives (JECFA) in advancing science-based risk assessments on evaluating the effects of veterinary drug residues and other food contaminants on the human intestinal microbiome, the FDA Lifetime Achievement Award, the FDA Commissioner's Award Merit, the DHHS Outstanding Leader Award in providing mentoring, training and career advancement opportunities to employees in a diverse workforce and Distinguished Alumnus Award at North Carolina State University.

- **DEWHURST Ian**

Ian Dewhurst trained as a biochemist and researched into the enzymology and neurochemistry of the inherited disease, homocystinuria. He started work as a regulatory toxicologist with the UK Department of Health in 1983, covering many types of chemicals including food additives, food contact materials, environmental contaminants, novel foods, cosmetics, consumer products and pesticides. He transferred to the UK Pesticides Safety Directorate in 1994 and until September 2017 was the Principal Mammalian Toxicologist with the Chemicals Regulation Division of the UK Health and Safety Executive performing human health risk assessments on pesticides, biocides and industrial chemicals. He has participated in working groups organised by international organisations such as WHO/IPCS, EFSA and OECD and has been a JMPR expert since 1997. He has a particular interest in minimising animal usage in regulatory toxicology without compromising the overall risk assessment.

- **EASTMOND David**

Dr. David A. Eastmond is a professor in the Department of Molecular, Cell and Systems Biology at the University of California, Riverside. He received his B.S. and M.S. degrees from Brigham Young University in Provo, Utah and his Ph.D. from the University of California, Berkeley. After serving as a Hollaender Distinguished Postdoctoral Fellow, he joined the faculty at UC Riverside where he is actively involved in research and teaching. His research focuses on the mechanisms involved in the toxicity and carcinogenesis of environmental chemicals and he has published more than 120 scientific articles in this area. Dr. Eastmond served as the president of the Environmental Mutagen Society and as a Jefferson Science Fellow in the US State Department. He has also participated on a variety of advisory panels related to chemical mutagenesis, carcinogenesis and risk assessment including panels for the US Environmental Protection Agency (EPA), the US Food and Drug Administration, the National Toxicology Program, the International Programme for Chemical Safety, the International Agency for Research on Cancer, the Organisation for Economic Cooperation and Development, and Health Canada. He currently serves as a member of the Carcinogen Identification Committee for the California EPA and the Chemical Assessment Advisory Committee for the US EPA.

- **INAYAT-HUSSAIN Salmaan**

Dr Salmaan INAYAT-HUSSAIN is the Head, Global Toxicology Department, Group Health, Safety and Environment at Petroliaam Nasional Berhad and currently a Fulbright Visiting Scholar at Yale School of Public Health. He has previously held senior governmental positions including Professor of Toxicology & Dean of the Faculty of Health Sciences, Universiti Kebangsaan Malaysia and Director, Melaka Biotechnology Corporation. Salmaan obtained a PhD in Biochemical Toxicology from the University of Leicester, England in 1997. Salmaan is an American Board Certified Toxicologist, Eurotox Registered Toxicologist and Fellow of the Academy of Sciences, Malaysia. He has more than 23 years of research and teaching from various organizations including University of Colorado, Karolinska Institutet, University of Osaka, King's College London and Kyoto University. Currently, Salmaan is the Associate Editor for Food and Chemical Toxicology journal and editorial board member for several journals including Human and Experimental Toxicology, Journal of Toxicological Sciences, Toxicology Methods and Mechanisms and Genes and Environment. Furthermore, Salmaan is the Chair for the IPIECA GHS Task Force and Director of the International Union of Toxicology Education Committee. He is an Advisor to the Department of Occupational Safety and Health, Malaysia and sits on the National Professors' Council. He has

published about 45 papers in peer reviewed journals and 7 chapters in books/encyclopedia. Salmaan has participated in working groups organised by international organisations such as WHO, UNEP and APEC Chemical Dialogue and has been a JMPR expert since 2011.

- **JACOBS Miriam**

Dr. Miriam Jacobs is a Principal Toxicologist in the Centre for Radiation, Chemicals and Environmental Hazards; Public Health England. She has over 20 years' experience in the hazard and risk assessment of pesticides and veterinary medicines, chemicals, food additives and contaminants. Specialisms include endocrine disruption, molecular toxicology, reproductive toxicology and epigenetic mechanisms, gender and pesticides/chemicals, metabolism, uncertainty analysis, and the development of alternatives to animal testing, including computational toxicology. For the last 12 years she has focused particularly on international chemicals safety and regulatory improvements to better protect public health, and this includes serving on several Organisation for Economic Cooperation and Development (OECD) expert groups, as chair of the OECD Validation Management Group – non animal (VMG-NA), and the OECD expert group on Integrated Approaches to Testing and Assessment of Non-Genotoxic Carcinogens, as a bureau member of the Endocrine Disruptor Testing and Assessment Advisory Group (EDTA-AG), and as a National Coordinator. One of her recent publications on addressing metabolism needs in in vitro regulatory approaches won a best ALTEX paper award. As a toxicologist she has also worked for the European Food Safety Authority, including the development of guidance and scientific opinions, the evaluation of pesticide evaluation reports and development of evaluation approaches; the European Commission Joint Research Centre; and has advised the UNDP. She continues to serve on several research and (inter)governmental Scientific Advisory Boards, Steering Groups and Study Management Teams (UK, Europe, US, Japan, S. Korea) and has been on the expert rosters for the Joint FAO/WHO Expert Committees on Food Additives and Pesticide Residues since 2011.

- **KANUNGO Debabrata**

Dr. Debabrata Kanungo has been the Chairman of Scientific Panel on Pesticides, and Antibiotics under Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare, Govt. of India since 2009. He was an expert in Toxicology and Risk Assessment with National Pesticide Registration Authority (CIB & RC) Govt. of India. He has 34 years of working experience as a regulatory toxicologist and risk assessment expert in evaluation of safety/toxicity of pesticides both in laboratory and national pesticide registration system. He was a member of

toxicology in Indian National Committee responsible for registration of pesticides. He is a Medical Doctor with postgraduate degree of Doctor of Medicine (MD) in Pharmacology and Toxicology. He was trained in Advance Toxicology and Risk Assessment from RIVM, the Netherlands. He is the main architect of “Guidance document on Toxicology for registration of Pesticides in India” (Kanungo Committee Report) harmonised with OECD. He has been associated with WHO Core Assessment Group as an expert for more than two decades in preparation of EHC and CICARD on pesticides and chemicals. For more than one decade, he has been an expert of WHO/FAO JMPR. He is also on the expert roster for the Joint FAO/WHO Expert Committees on Food Additives (JECFA). He has led the Indian Government Delegation for a number of CCPR Meetings. He has been an invited speaker to several meetings/conferences related to toxicology and chemical risk assessment. He has also been the member or chairman of a number of committees of national importance related to safety of pesticides and chemicals. He was the former Additional Director General of Health Services, Ministry of Health and Family Welfare, Government of India.

- **KLUEVER April**

Dr. April Kluever has over six years of experience as a regulatory toxicology reviewer at the US FDA Center for Food Safety and Applied Nutrition, where she performs premarket and postmarket safety assessments for food additives. She is the FDA-wide subject matter expert on infant lifestage-specific safety assessment for food contact materials and is consulted on topics related to postnatal developmental toxicity across FDA programmatic areas. Dr. Kluever has served on international scientific groups for the Organization for Economic Co-Operation and Development (OECD), World Health Organization (WHO), and the International Life Sciences Institute - Health and Environmental Sciences Institute (ILSI-HESI). She served as a temporary advisor to JMPR in 2012-2013, co-authoring an addendum to the chlorfenapyr monograph. Prior to joining FDA, Dr. Kluever’s academic research focused on the developmental neurotoxicity of metals and pesticides (published under the name April Neal). Dr. Kluever received her Ph.D. in Environmental Health Sciences from Johns Hopkins University Bloomberg School of Public Health with a specialization in Neurotoxicology and certification in Risk Sciences and Public Policy. She is board certified in general toxicology through the American Board of Toxicology.

- **LAMBRE Claude**

Doctor Claude Lambré graduated Docteur d’état ès Sciences with a specialization in immunology and toxicology. He was trained at the Institut Pasteur (Paris), then at UAB medical centre

(Birmingham AL, USA) and at St Jude's children Research Hospital (Memphis TN, USA). He was Director of research at the French National Institute for Health and Medical Research (INSERM) then Head of the department of toxicology and ecotoxicology at the French National Institute for Industrial Environment and Risks (INERIS) where he studied the effects of environmental chemical pollutants on the human health and the environment. From 1999 to 2003, he was Head of the Risk Assessment Unit of Chemical Contaminants in Foods at the French Food Safety Agency (AFSSA). From 2003 to 2012, Dr. Lambré was the Head of the board of Advisors to the Executive Director of Health at the French Ministry of Health. Dr. Lambré is vice chair of the Scientific Panel on additives and nutrient sources added to food of the European Food Safety Authority (EFSA). He was also Member of the Scientific Committee on Toxicity, Ecotoxicity and the Environment (DG SANCO) and of the OECD Working Party on Manufactured Nanomaterials. He is member of the "Comité pour l'évaluation des risques chimiques dans les aliments" at ANSES. Since 2011 he is member of the Joint WHO/FAO Committee on Food Additives and Contaminants (JECFA).

- **LOW Kimberly**

Kimberley Low is a senior evaluation officer at the Pest Management Regulatory Agency (PMRA), Health Canada. She is a biologist by training and holds a BSc in zoology. She has been involved in the evaluation of data and information on the human health hazards of pesticide active ingredients including the derivation of toxicological reference doses since 2006. This work includes assessment of the effects on human health of herbicides, fungicides and plant growth regulators in the context of national and international joint authorisation and preparation of dossiers for classification and labelling of these substances under the federal Pest Control Products Act. This is her fifth year participating in the Joint Meeting on Pesticide Residues as a technical expert for the World Health Organization.

- **MORETTO Angelo**

Pr. Angelo MORETTO was medical and research scientist from 1997 to 2006 in the Department of Environmental Medicine & Public Health at the University of Padua in Italy. From 2002 to 2006, he was Head of the Laboratory of Industrial Toxicology in the Department of Environmental Medicine & Public Health at the University of Padua in Italy. Since 2006, he is Associate Professor of Occupational Medicine in the Department of Biomedical and Clinical Sciences at the University of Milan in Italy. Since 2006 he is also Director of the International Centre for Pesticides and Health Risks Prevention at "Luigi Sacco" Hospital of the ASST Fatebenefratelli Sacco, in Milan, Italy. His main interests are in the pathogenesis and mechanisms of organophosphate induced-delayed

polyneuropathy, in the cholinergic toxicity and the metabolism of organophosphates, in other toxic neuropathies, in the neurotoxic profile of some pesticides, in developmental toxicity, and in combined exposures. He also studies occupational, accidental and non-occupational exposure to pesticides and other chemicals. He is a member of many international committees for the risk assessment of exposure to chemicals, in particular pesticides, and for the improvement, harmonization and innovation of risk assessment methods. He is Referee of research projects for several governments and institutions. He has been an invited speaker to several meeting related to toxicology and chemical risk assessment. He has received several research grants from National and International bodies, related to toxicology, risk assessment and toxicology training. He published about 100 papers in peer-review journals.

- **NIEMANN Lars**

Lars Niemann studied veterinary medicine at the Humboldt-University of Berlin where he received his PhD in 1992, based on research in the field of veterinary virology. In the same year, he started to work for the German health authorities and is currently a scientific employee at the Federal Institute for Risk Assessment (BfR) in Berlin, acting as the deputy unit leader “Toxicology of active substances and their metabolites” since 2000. His main task is the health evaluation of pesticides of both chemical and microbial origin, both for national authorization purposes as well as on EU level. He has been a regular participant of expert meetings of the EU Commission or the EFSA on pesticide active ingredients since 2003 and was a member of the OECD working group for drafting the “Guidance notes on dermal absorption” (2005–2010). Dr. Niemann participated as study veterinarian and principal investigator in reproduction studies in Japanese quail (1999-2003) and, more recently, served as study director in subacute feeding trials on mixture toxicity in rats. Beside his contributions to many EU monographs on pesticides, he published a number of scientific articles and book chapters on various topics such as avian reproductive toxicity, insecticides of natural origin, combination toxicity, dermal absorption, and risk assessment.

- **O'MULLANE Matthew**

Dr Matthew O'Mullane is currently Section Manager, Product Safety Standards, at Food Standards Australia New Zealand and is the Australian Delegation lead to the Codex Committee on Contaminants in Food (CCCCF). He was previously Director of the Chemical Review Program at the Australian Pesticides and Veterinary Medicines Authority (2013-17). He has held senior positions in regulatory toxicology within the Australian government for over 17 years and has extensive

experience in the risk assessment of pesticides and veterinary medicines, food additives, contaminants and novel foods (including food derived from GM crops). Matthew has been an expert adviser to the JMPR since 2011. Prior to these roles, Matthew spent four years as a research scientist in the fields of protein biochemistry, cell biology and preclinical drug development. He has a PhD from the University of Wollongong, Australia, specializing in the role of proteases in programmed cell death.

- **SCHUMACHER David**

David Schumacher is a senior scientific officer at a German regulatory agency. He is a food chemist by training and holds a PhD in natural sciences/toxicology from University of Karlsruhe, Germany. He has extensive experience in the risk assessment of pesticides. Since 2006 he has been involved in the evaluation of data and information on the human health toxicological properties of pesticide active ingredients including the derivation of toxicological reference doses. This includes the preparation of both assessment reports on the properties of pesticide active ingredients in the context of national and EU-wide authorisation (Regulation (EC) No 1107/2009) and dossiers for harmonised classification and labelling of these substances according to the EU's implementation of UN GHS (i.e., Regulation (EC) No. 1272/2008). Additionally, he is member of EFSA's Pesticide Peer Review Panel and expert at OECD working groups on genotoxicity test guidelines and cell transformation assays.

- **SHAH Prakashchandra**

Dr P. V. Shah is a branch chief of Chemistry, Inerts and Toxicology Assessment Branch (CITAB) in the Registration Division of Office of Pesticide Programs of US Environmental Protection Agency. He received his MS and Ph.D degree from North Carolina State University, Raleigh, NC. His research focused on dermal absorption and metabolism. He has authored approximately 25 scientific publications in peer reviewed journals, several book chapters and review articles in the area of dermal absorption. He joined OPP in 1997 as a toxicologist in the Health Effects Division. In HED, he served as a toxicologist, acting team leader, branch senior scientist and Acting Branch Chief of the Registration Action Branch. He is serving on various HED peer review committees including Cancer Assessment Review Committee. He has experience in reviewing toxicological submitted in support of registration of pesticide and conducting human health risk assessment. Prior to joining OPP, he worked as a Senior Industrial Toxicologist at Hoffmann-La Roche Inc., Nutley, New Jersey.

He has served as advisor to FAO/WHO Joint Meeting on Pesticides Residues (JMPR) for more than ten years.

- **TOSTI Luca**

Dr. Luca Tosti following the academic degree in Biological Sciences, he obtained a Ph.D. in Biology and marine ecology with a curriculum in reproductive and developmental biology, and toxicology from the Polytechnic University of Marche. From 2008 to 2011, he covered a scientific project officer position in research and validation of alternative methods to animal testing in the area of sensitization (skin and respiratory; 7th amendment of the Cosmetic Directive 76/768/EEC; Directive 2003/15/EC and REACH), by European Commission – JRC-ECVAM. He was involved in the validation of three in vitro methods aimed at assessing the potential skin sensitizing ability of compounds. Since 2012 to present he is working as toxicologist and operator exposure assessor by the International Centre for Pesticides and Health Risk Prevention (ICPS), where, within the EC registration process, he is performing toxicological evaluations of plant protection products and active ingredients, contributing to Draft Assessment Reports preparation (directive 91/414/EC), and biocides (directive 98/8/EC), both in the perspective of their national and European registration. To this respect he participates as Italian delegate at EFSA Pesticides Peer Review Expert Meetings on Mammalian Toxicology and Biocides Technical Meeting (TM) at JRC-IHCP.

- **YOSHIDA Midori**

Midori Yoshida DVM PhD arrived at a commissioner of Food Safety Commission of Japan (FSCJ) Cabinet Office in 2015. FSCJ is the responsible organization for risk assessment of food and chemicals in food in Japan. She previously worked for National Institute of Health Science, the Ministry of Health Labor and Welfare as a section chief of Division of Pathology, Biological Safety Research Center. She started risk assessment of pesticides at FSCJ about 10 years ago. She has also attended JMPR as a monographer for 8 years. She has over 30-year carrier as a toxicologic pathologist after the graduation of Tottori University. Her main research targets are mechanisms of toxicity in reproductive system and carcinogenicity induced by chemicals.

- **YOSHIZAWA Katsuhiko**

Dr. Katsuhiko Yoshizawa (KATSU) is a professor in Department of Food Science and Nutrition, Mukogawa Women's University. He is an expert committee member (Pesticides), Food Safety Commission of Japan, Cabinet Office, Government of Japan, and an expert committee member

(Drugs), Pharmaceuticals and Medical Devices Agency (PMDA), Government of Japan. He was a chief pathologist and toxicologist in Fujisawa Pharmaceutical Co. Ltd. and Astellas Pharma Inc., Japan, and was an associate professor in Kansai Medical University, with 25-year experience in drug and chemical safety assessment. He is a well experienced toxicologic pathologist. In particular, he has excellent expertise to toxicities in eye-, liver-, heart-, skin-, mammary- and anti-cancer drug- and immunosuppressant drug-induced toxicities and carcinogenicity. He has more than 200 publications in peer-review journals (including in Japanese). He was a visiting scientist for about two years, Laboratory of Experimental Pathology, National Institute of Environmental Health Science (NIEHS), USA. He researched the mechanistic studies of dioxin-induced and toxicity, chemical-induced heart toxicity. In addition, he was also the voting member of the Pathology Working Group (PWG) meetings for the NTP studies of several chemicals.

- **WOLTERINK Gerrit**

WOLTERINK Gerrit (1959) has a MSc in Biology and a PhD in neuropharmacology from Utrecht University, the Netherlands. He worked 12 years as a neuropharmacologist at Cambridge University and Utrecht University. Since 2000, he works as a toxicologist at the Dutch National Institute for Public Health and the Environment (RIVM) on the toxicological evaluation and human health risk assessment of pesticides, biocides, contaminants, veterinary drugs and food additives in food and non-food products. He has been a member of the WHO Panel of the Joint FAO/WHO Meeting on Pesticide Residues (JMPR, since 2002), the Joint FAO/WHO Expert Committee on Food Additives (JECFA, 2010-2013) and the Panel on Plant Protection Products and their Residues (PPR) of EFSA (since 2015). He has published over 50 scientific papers.

- **ZHANG Liying**

Zhang Liying is a toxicologist currently working in Institute for the Control of Agrochemicals, Ministry of Agriculture, P. R. China (ICAMA). She joined ICAMA in 2001 after graduated and had pharmacology background. From 2001 to 2005 she worked in Division of Pesticide Registration and Administration. Since 2006 she has worked in Division of Health Effects and focused her work on pesticide toxicology. Zhang Liying has various experiences in the field of pesticide toxicology, including toxicological dossier review, health risk assessment, technical guidelines development, and as well as laboratory supervision. She has finished more than 40 standards and guidelines, such as *Microbial pesticide toxicological test guidelines*, *pesticide registration toxicological test methods*, *Guide on establishment of pesticide ADI*, *Guide on establishment of pesticide ARfD*, *Handbook of*

pesticide ADI, etc. She was one of the principal members of national project of *Research on integrated techniques of pesticide risk assessment* which aimed to establish the pesticide risk assessment framework in China. She has attended Sino-US pesticide management project and other projects. Zhang Liying is a member of National Pesticide MRLs Review Committee, and also a member of Chinese Society of Toxicology.

- **ZARN Jürg**

Jürg Zarn received a PhD in biochemistry in 1992 and in the following years he worked in molecular oncology. Since 1996 he served for Swiss health authorities as a general toxicologist in the area of risk assessment of chemicals in food including pesticide residues. He is now head of the Scientific Evaluation Sector of the Swiss Federal Food Safety and Veterinary Office FSVO. In recent years, a focus of his interest was on conceptual issues regarding the role of the toxicity study design for the dietary risk assessment of pesticides. Since 2004 he worked as an expert for the “FAO/WHO Joint Meeting on Pesticide Residues” and since 2014 he is member of the German “BfR Committee for Pesticides and Their Residues”.

FAO PANEL EXPERTS

- **CUDMORE Julian**

Dr Julian Cudmore is a senior scientist in the Chemicals Regulation Division (CRD) of the UK Health and Safety Executive. He has worked in CRD since 2006 and his role involves the evaluation of pesticide and biocide residues data as part of the registration and MRL setting process. Julian is the lead technical specialist for MRLs and represents the UK at EU risk management meetings relating to pesticide residues. While working at CRD Julian has delivered training to international audiences on consumer exposure assessments for pesticides and has been involved in codex working groups. Prior to joining CRD Julian worked in the food industry. He has a degree and Ph.D in analytical chemistry.

- **DOHERTY Michael**

Dr. Doherty is currently a senior scientist in the Health Effects Division of the U.S. Environmental Protection Agency's Office of Pesticide Programs. Prior to joining the EPA in 1998, Dr. Doherty worked for the U.S. Department of Agriculture's Agricultural Research Service, investigating the fate of pesticides in the environment under different agronomic practices. He received his MS and Ph.D.

degrees from the University of Maryland, where his research focused on the environmental toxicology of agricultural contaminants and on the biochemical effects of pesticide mixtures. Dr. Doherty has authored six papers in peer-reviewed journals. In his work at EPA, Dr. Doherty has authored numerous residue chemistry evaluation and human health risk assessments, and provided technical training to groups within the U.S. Government and to international audiences. He is also a member of the OECD's Residue Chemistry Expert Group dealing with pesticides, and has served as a temporary advisor to the FAO for the Joint Meeting on Pesticide Residues for four years.

- **HEIDLER Jochen**

Jochen Heidler is a scientific officer at the German Federal Institute for Risk Assessment since 2008 and worked for the last 5 years within the department of pesticide safety. He is responsible for the evaluation of residue and analytical studies and the preparation of assessment reports on residue behavior and residue analysis of pesticides for national and EU authorization procedures. On the national level he is a member in the Expert Group for Pesticide Residue Analytical Methods (EPRA). Additionally he participates in EFSA's Pesticides Peer Review Expert Meetings for residues and physical & chemical properties. He holds a Master of Science in Biochemistry from the Eberhard-Karls-Universität Tübingen, Germany and received his PhD in Environmental Health Sciences from the Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA. Jochen Heidler joined the JMPR for the FAO panel in 2017.

- **HUMPHREY Paul**

Dr Paul Humphrey has a B.Sc. (Hons.) and a PhD in chemistry from the University of Adelaide in Australia and in the following years worked as a chemist doing postdoctoral positions at the University of Bristol and the University of Sydney. He has worked in pesticide residues evaluation at the Australian Pesticides and Veterinary Medicines Authority (APVMA) for ten years and is currently a senior Pesticides Residues Evaluator. Paul has contributed to the work of the annual Joint FAO/WHO Meeting of Pesticide Residues (JMPR) since 2011. He is a co-author of over 40 scientific papers.

- **IRIE Makoto**

Mr Irie is deputy director of Agricultural Chemicals Office, Plant Products Safety Division, Food Safety and Consumer Affairs Bureau, Ministry of Agriculture, Forestry and Fisheries of Japan. He has worked in this area since 1992 and it is a role that involves risk management relating to agricultural chemicals. He is involved in the work of Codex as a member of Japanese delegation to

Codex Committee on Pesticide Residues. Mr Irie is a chemist and has served since 2008 as a technical adviser of the FAO/WHO Joint Meeting on Pesticide Residues.

- **LEE Mi-Gyung**

Ms Mi-Gyung Lee is currently professor of Dept. of Food Science and Biotechnology in Andong National University of the Republic of Korea. She has been a faculty member of the University since 1999. Her research focused on pesticide residues and risk assessment. She has published 55 original research papers in peer reviewed journals. Professor Lee played a key role in developing Korean pesticide regulatory system by undertaking a project leader of national research projects, "Studies to Improve the Tolerance Setting System of Pesticide Residues in Foods", "Re-evaluation of MRLs of Pesticides", and Establishment of Evaluation System for Pesticide Residues". Since 2005, she has participated in the Codex Committee on Pesticide Residues as a Korean delegation and actively participated in the work of Codex Committee on Pesticide Residues and other related international activities. She worked as a member of national and international advisory committees, Deliberation Council of National Agricultural Products Quality Management Service of Korea, Korea Food Sanitation Deliberation Council, Pesticide Registration Authority of Rural Development Administration of Korea, Editorial Board of the Korean Journal of Pesticide Science, and International Crop Grouping Consulting Committee.

- **LUNN Dave**

Mr Dave Lunn has worked in the area of pesticide regulation, particularly the pre-clearance safety evaluation of pesticides in New Zealand since 1972, moving into the more technical aspects of pesticide residue assessment and MRL-setting in 1995 as Chief Scientist (Pesticides) in the Ministry of Agriculture and Fisheries and Registrar of the NZ Pesticides Board. In recent years, as a Senior Programme Manager in the NZ Food Safety Authority, he has concentrated on providing technical advice to New Zealand exporters and producer groups on NZ's trading partner pesticide residue requirements. In his current position as Principal Adviser (Residues) with the Plant Exports Group of the NZ Ministry for Primary Industries, his main areas of work include the evaluation of pesticide residue dossiers as part of the NZ pesticide registration process and providing technical advice on national and international pesticide residue standards (MRLs), residue testing and compliance policies. He is also a member of the New Zealand delegation to the Codex Committee on Pesticide Residues (CCPR) and has been the Rapporteur for that Committee for close to 20 years. He has also participated in FAO, OECD and APEC technical workshops on pesticide residue assessment and

management and has served as an expert on the FAO/WHO Joint Meeting on Pesticide Residues (JMPR) since 2002.

- **MACLACHLAN Dugald**

Dr MacLachlan is director of residues and microbiology policy in the Exports Division of the Australian Federal Department of Agriculture and Water Resources. He has worked in this area since 2001 and it is a role that involves risk assessment relating to pesticides, veterinary drugs and contaminants. He is involved in the work of Codex, leading Australian delegations to Codex Committee on Residues of Veterinary Drugs in Food as well as to Codex task forces on antimicrobial resistance and animal feeding. A particular interest has been in models for predicting pesticide residues in crops and the potential for their transfer from feed to animal commodities. Dr MacLachlan is a chemist by training and is the author of 39 peer reviewed papers and has served since 2000 as a member of the FAO/WHO Joint Meeting on Pesticide Residues. He has contributed to the drafting of various OECD test guidelines and guidance documents.

- **MALHAT Farag**

Dr. Farag Malhat is senior research officer in Pesticide Residues and Environmental Pollution Department, Central Agricultural Pesticide Laboratory, Egypt. He has worked in this area since 2003 and it is a role that involves determination of pesticides safe use gauges, with special reference to dissipation and preharvest intervals profile. A particular interest has been in pesticides behaviour in different environmental matrices; health hazards and risk assessment studies relating to pesticides. It includes the investigation of pesticide fate and transport in the environment with numerical modelling as well as the pesticide residue in food/materials. He published about 50 papers in peer-review journals. He is currently engaged in several research grants in the field of pesticide residues, dissipation and monitoring.

- **MAHIEU Karin**

Ms Karin Mahieu is a European Registered Toxicologist (ERT) and studied medical biology at the University of Amsterdam, where she graduated in 1995 (BSc). For several years she worked as a toxicological risk assessor at TNO in Zeist on new and existing chemicals (now REACH) and on pesticides. Since 2009 she holds a position as toxicological risk assessor at RIVM (Dutch National Institute for Public Health and the Environment) in the field of pesticides and biocides, making a slight shift from human toxicology to residue evaluations. In this position she has been involved in

preparing pesticide residue evaluations for Draft Assessment Reports for the EU and supporting with preparing residue evaluations for the JMPR since 2014.

- **MARGERISON Samuel**

Dr Sam Margerison is the director of the Chemistry and Manufacture section in the Scientific Assessment and Chemical Review Program at the Australian Pesticides and Veterinary Medicines Authority (APVMA). This section is responsible for approving agricultural and veterinary active constituents, as well as evaluating the formulation chemistry, manufacturing processes, analytical methods and stability data to support registration of products. Previously, he was a senior residues evaluator at APVMA, evaluating metabolism, residues and dietary intake data for pesticides. Sam has prepared seven monographs for JMPR since 2012. He completed a B.Sc. (Hons) in Chemistry at the University of Canterbury, Christchurch, New Zealand, and a Ph.D. in Physical Inorganic Chemistry at the Australian National University in Canberra.

- **PAN Canping**

Professor Pan is at present Professor of pesticide chemistry and director of Department of Agro-products Safety in College of Science, China Agricultural University. He has been Vice deputy director of Chinese Pesticide Standardization Committee on Pesticides, China National Pesticide Residue Committee on Food safety, vice-chairperson of CCPR Working Group on Pesticide Residue Analysis. He has research background on organic synthesis, radio-labelled binding study on mode of action, pesticide formulation QA, pesticide impurity profile study, crop field trials, environmental chemistry, chromatography and fast screening tools on pesticide residue etc. His research interests are now on pesticide residue analytical methodology, molecular imprinting, field residue studies, minor crop, pesticide usage and reduction possibilities, dietary exposure assessment etc. He is author or co-author of more than 70 scientific papers in pesticide chemistry field. Canping Pan also serves as vice-chief editor of Chinese Journal of Pesticide Science, and several scientific journals' reviewer/board member. He is responsible person or principal member of national projects on crop grouping based on residue data, pesticide reduction and increasing of pesticide effective usage.

- **SIEKE Christian**

Mr Christian Sieke is a scientific employee at a German regulatory agency. He is a food chemist by training and has extensive experience in the consumer risk assessment of pesticides. Since 2003, he has been involved in the evaluation of pesticide residues. This includes the preparation of assessment reports on the residue behaviour of pesticide active ingredients in the context of national and EU-

wide authorisation (Regulation (EC) No 1107/2009). On national level he is also a member of the expert advisory panel for the German food monitoring program and responsible for developing consumer exposure models based on German consumption data. Additionally, he participated in EFSA's Pesticide Peer Review Panel and is an expert at the residue chemist expert group (RCEG) of OECD. Christian Sieke joint JMPR at 2006 for the FAO group.

- **THOMAS Monique**

Ms Monique Thomas is the section head of the Antimicrobials and Insecticides exposure section within the Health Evaluation Directorate of the Pest Management Regulatory Agency of Health Canada. She has been in this role for the past 9 years where she has been involved in dietary and occupational/residential exposure and risk assessments relating to pesticides. She continues to be involved in international projects under NAFTA and OECD, contributing to the drafting of various food residue chemistry policies and guidelines/guidance documents as well as writing the Canadian positions in preparation for the CCPR (Codex Committee on Pesticide Residues) meetings. Ms Thomas has served since 2014 as a member of the FAO/WHO Joint Meeting on Pesticide Residues.

- **YAMADA Yukiko**

Dr Yamada is currently Advisor to the Vice-Minister, Ministry of Agriculture, Forestry and Fisheries (MAFF), Japan, after her retirement from MAFF as Director-General for Technological Affairs/Chief Scientific Officer and later working as International Food Safety Consultant (self-employed), and Advisor to the Vice-Minister (part-time) of MAFF. She is now providing guidance and advice on review and reform of the pesticide registration system to MAFF, and on pesticide residues and contaminants to MAFF and the Ministry of Health, Labour and Welfare (MHLW), and participating in a research project of MHLW on pesticide residue regulations. She has organized and conducted training courses on food safety and pesticide residue evaluation for MHLW and overseas countries. She was the driving force in the implementation of food safety risk analysis in the Japanese Government and risk management in MAFF and established a nation-wide surveillance and monitoring system for chemical and microbiological hazards in MAFF. She was once the Secretary of the Codex Committee on Pesticide Residues and now serving as vice-chair of the OECD Working Group on Pesticides for the second time (2008-2012, 2017-) and as member of RCEG of WGP. She headed the Japanese Delegations to various Codex committees related to food safety, OECD WGP and other international meetings, and has participated in the Joint FAO/WHO Meeting on Pesticide Residues since 2001.

- **YE Guibiao**

Dr Guibiao Ye is currently director of CCPR secretariat office in Institute for the Control of Agrochemicals, Ministry of Agriculture (ICAMA), P. R. China. He received the Bachelor in plant protection in Zhejiang Agriculture University, Master in pesticide science in graduate school of China Academy of Agriculture Science and PhD in pesticide residues in China Agriculture University. He has been working in pesticide registration and management for more than 20 years. He was the director of Residue evaluation division, pesticide import and export control division of ICAMA. His working experience includes pesticide residue evaluation, efficacy evaluation, international cooperation and international convention (e.g. Rotterdam Convention). He has been a JMPR expert since 2013 and deeply involved in the establishment of international and national MRLs standards. He published more than 60 research papers and 10 monographies. He achieved 6 scientific and technological awards at Ministerial level. He is a member of National Review Committee on Standards of Pesticide Residues, a member of Chinese Society of Plant Protection and vice chair of Chinese Society of Weed Science.

- **VAN DER VELDE-KOERTS Trijntje**

Ms Trijntje van der Velde-Koerts is trained as chemist (BSc) and since 2000 she holds a position as food safety advisor at RIVM (Dutch National Institute for Public Health and the Environment) in the field of pesticides, biocides and veterinary medicines. In this position she has prepared many pesticide residue evaluations for Draft Assessment Reports for the EU. Trijntje is a Member of the Residue Chemistry Expert Group of the OECD since 2007 and a Member of the FAO panel of the Joint FAO/WHO Meeting on Pesticide Residues (JMPR) since 2008. Trijntje is also involved in the preparation of the Dutch and JMPR models for estimation of pesticide residue dietary exposure.

Send your comments to: jmpr@who.int , yongzhen.yang@fao.org