

# Sixth International Conference on Environmental Mutagens in Human Populations

26<sup>th</sup> - 29<sup>th</sup> March 2012 <http://www.icemhp-2012.org>

## PROGRAM

Pre-Conference Day: 26<sup>th</sup> March 2012

Pre-Conference Day: 26 <sup>th</sup> March 2012	
13:00	<b>Registration</b> <b>Poster Display – Ground Level (Exhibition Hall 2)</b>
14:30 – 15:30	LUNCH
15:30 – 18:00	<p><i>Level 1 – Meeting Room 103</i></p> <p><b><u>Human Workshop : HUMN/HUMNxl AUTOMATED MICRONUCLEUS WORKSHOP USING IMAGE CYTOMETRY SYSTEMS</u></b></p> <p>Objectives:</p> <ul style="list-style-type: none"> <li>• Review current developments in automation of micronucleus assays by image cytometry</li> <li>• Define parameters and processes for instrument validation and quality control</li> <li>• Discuss the design of inter-laboratory comparisons and standardisation of micronucleus assays using automated image cytometry systems.</li> </ul> <p><b>Program:</b></p> <p><b><u>Chairs:</u></b> Stefano Bonassi, Michael Fenech</p> <p>(I) METASYSTEMS METAFER system          Andrea Rossnerova, Inst. of Experimental Medicine, Czech Republic. 20 min.</p> <p>(II) IMSTAR automated system          Micheline Kirsch-Volders; Free University of Brussels. 20 min,</p> <p>(III) COMPUCYTE Laser Scanning Cytometry system          Michael Fenech, CSIRO Australia. 20 min</p> <p>(IV) Statistical Issues for instrument validation and inter-laboratory comparison of automated systems          Stefano Bonassi; IRCCS San Raffaele Pisana, Roma, Italy. 20 min</p> <p>(V) Round-Table Discussion on Criteria for Automated Image Cytometry Micronucleus Scoring systems and the HUMN/HUMNxl interlab automated MN scoring exercise (64 minutes) - Panel Members (8 minutes each)</p>

	<ul style="list-style-type: none"> <li>• Radim Sram, (Institute of Experimental Medicine, Czech Republic)</li> <li>• Horst Romm (The Federal Office for Radiation Protection, Germany)</li> <li>• Claudia Bolognesi (National Cancer Institute, Italy)</li> <li>• Adarsh Ramakumar (AFRRI, USA)</li> <li>• Francoise Soussaline (IMSTAR)</li> <li>• Azzedine Elhajouji (Novartis)</li> <li>• Wagida Anwar (Ain Shams University, Egypt)</li> </ul>
<b>18:00 – 20:00</b>	<b>Cocktail Reception</b> ( <i>Abdelali Haoudi and William Au</i> )
<b>End of Pre-Conference Day</b>	

<b>Day 1: 27<sup>th</sup> March 2012</b>	
<b>08:30 – 09:00</b>	<b>Registration</b> <b>Poster Display</b> – <i>Ground Level (Exhibition Hall 2)</i>
<b>09:00 – 10:00</b>	<p><u>Ground Level – Auditorium 2</u> Master of Ceremony Eman Nasralla, Emperial College, member of the QSLP</p> <p><b><u>Introduction and Keynote Address</u></b> <b>Abdelali Haoudi</b> Co- Chair, Vice President for Research, Qatar Foundation</p> <p><b>William W Au</b> Co-Chair, Associate Dean and Chairman, Shantou University Medical College, China</p> <p><b>H.E. Abdulla bin Khalid Al-Qahtani</b> Minister of Health and Secretary General of the Supreme Council of Health</p> <p><b>Keynote Presentation:</b> <i>Environmental Carcinogens: Exposure and Impacts on Children’s Health</i> Her Royal Highness Professor Dr. Princess Chulabhorn of Thailand</p>
<b>10:00-10:15</b>	<b>Coffee Break</b>
<b>10:15-11:05</b>	<p><u>Ground Level – Auditorium 2</u></p> <p><b><u>Keynote Address</u></b> <b>Wagida Anwar</b> Co-Chair, Head of the Department of Community Medicine; Faculty of Medicine, Ain Shams</p>

	<p>University, Egypt</p> <p><i>Welcome for International Association of Environmental Mutagen Societies (IAEMS)</i></p> <p><b>Stefano Bonassi</b> President , International Association of Environmental Mutagen Societies (IAEMS), Italy</p> <p><b>Keynote Presentation:</b> <i>Pollutions and health: new challenges, new methods</i></p> <p><b>William Dab</b>, Head of the Department of Hygiene and Security at the French National Institute for Science, Technology, and Management (Cnam), Director of the Institute of Industrial Hygiene and the Environment - Sanitary Safety of the Environment and the Work (IHIE-SSET).</p>	
11:05 – 11:30	<b>Coffee Break &amp; Poster Display</b> <i>(Presenter may standby)</i>	
11:30 – 13:15	<b>Parallel Sessions</b>	
	<p><i>Ground Level – Auditorium 2</i></p> <p style="text-align: center;"><b><u>Session 1</u></b></p> <p><b><u>Specific environmental health concerns in developing countries</u></b></p> <p><b><u>Chairs:</u></b> Wagida Anwar, Ain Shams University, Egypt, and Malyn Chulasiri, Environmental Mutagen Society, Thailand</p> <ol style="list-style-type: none"> <li>1. <i>Genetic Toxicology Research in Developing Countries.</i> (Wagida A. Anwar, Ain Shams University, Egypt)</li> <li>2. <i>Adverse environmental and health effects from the electronics recycling industry in China.</i> (Huo Xia, Shantou University Medical College, China)</li> <li>3. <i>Epidemiological, clinical and molecular studies of radiation-induced mutations of residents of the Semipalatinsk nuclear test site in Kazakstan.</i> (Bersimbay R.I. National Academy Sciences ,Republic of Kazakhstan)</li> <li>4. <i>Role of endocrine disruptive chemicals on the incidence of female reproductive disorders in Iran.</i></li> </ol>	<p><i>Level 1 – Meeting Room 103</i></p> <p style="text-align: center;"><b><u>Session 2</u></b></p> <p><b><u>Biomarkers for human population studies</u></b></p> <p><b><u>Chairs:</u></b> Stefano Bonassi, International Association of Environmental Mutagen Societies (IAEMS), Italy, and Ali Karakaya, Gazi University, Turkey</p> <ol style="list-style-type: none"> <li>1. <i>Population studies for health and genetic risk assessments.</i> (William W. Au, Shantou University Medical College, China)</li> <li>2. <i>Chromosome damage and the damage repair capacity in Chinese Vinyl Chloride Monomer-exposed workers.</i> (Xia Zhao-lin, Fudan University, China)</li> <li>3. <i>Biological Dosimetry: State of the art.</i> (Firouz Darroudi, Leiden university Medical Centre, Netherlands)</li> <li>4. <i>Pooled Analysis: A Powerful Tool for Human Population studies.</i> (Stefano Bonassi, International Association of</li> </ol>

	<p>(Sepideh Arbabi Bidgoli, Islamic Azad University, Iran)</p> <p>5. <i>Specific Environmental Health Concerns in Thailand: Focusing on Map Ta Phut Industrial Estate.</i> (Malyn Chulasiri, Thai Environmental Mutagen Society, Thailand)</p>	<p>Environmental Mutagen Societies (IAEMS), Italy)</p> <p>5. <i>Comet Assay: An Exposure Biomarker for Human Biomonitoring.</i> (Alok Dhawan, CSIR-Indian Institute of Toxicology Research, India)</p>
<b>13:15 – 14:30</b>	<b>Lunch and Poster Display</b> (Presenter may standby)	
	<b>Parallel Sessions</b>	
	<p><i>Ground Level – Auditorium 2</i></p> <p style="text-align: center;"><b><u>Session 3</u></b></p> <p><b><u>Specific environmental health concerns in developing countries</u></b></p> <p><b><u>Chairs:</u></b> Wagida Anwar, , Ain Shams University, Egypt, and Malyn Chulasiri, Malyn Chulasiri, Thai Environmental Mutagen Society, Thailand)</p> <ol style="list-style-type: none"> <li>1. <i>Chemoprofiling of mycotoxigenic fungi occurring in maize, sorghum and millet grains in Africa.</i> (Hester Vismar, Medical Research Council, South Africa)</li> <li>2. <i>Regulatory measures of genetic toxicology testing in the local industries of drug.</i> (Fouad Badr, Suez Canal University, Egypt)</li> <li>3. <i>Exposure to desert cyanobacteria may pose a risk to human health.</i> (James Metcalf, Selected Oral)</li> <li>4. <i>Susceptibility of Cancer among Tannery Workers Exposed to Chromium.</i> (Amal Saad-Hussein, National Research Center, Egypt)</li> <li>5. <i>Testing the genotoxicity of Sodium Arsenate in human lymphocytes.</i> (Ola El-Habit, Helwan University, Egypt)</li> </ol>	<p><i>Level 1 – Meeting Room 103</i></p> <p style="text-align: center;"><b><u>Session 4</u></b></p> <p><b><u>Application of scientific knowledge for disease prevention</u></b></p> <p><b><u>Chairs:</u></b> Michael Wilhelm, Ruhr University Bochum, Germany</p> <ol style="list-style-type: none"> <li>1. <i>Metal interactions with the nervous system.</i> (Dietrich Busselberg, Weill Cornell Medical College, Qatar)</li> <li>2. <i>Human biomonitoring studies for exposure and risk assessment.</i> (Michael Wilhelm, Ruhr University Bochum, Germany)</li> <li>3. <i>Prevention of waterborne disease: translating research into public health policy.</i> (Paul Hunter, University of East Anglia,UK)</li> <li>4. <i>Effect of TiO2 nanoparticles in human cells from healthy individuals and patients with respiratory diseases.</i> (Diana Anderson, University of Bradford, UK)</li> <li>5. <i>What causes seasonal variation in disease prevalence and rapid evolutionary changes in virulence Mycoplasma gallisepticum?.</i> (Andre Dhondt, Cornell University, USA)</li> </ol>
<b>14:30 – 16:15</b>		
<b>16:15 – 16:45</b>	<b>Coffee Break and Poster Presentation</b> (Presenter must be available)	

Parallel Sessions

Ground Level – Auditorium 2

Session 5

Genomic and proteomic technologies in environmental health

**Chairs:** Young Seo, Institute of Environmental Medicine for Green Chemistry, South Korea, and Ashok Giri, Indian Institute of Chemical Biology, India

1. *Environmental Toxicogenomics: How Genomic Technologies Are Impacting the Science of Toxicology.* (Richard S. Paules, National Institute of Environmental Health Sciences, USA)
2. *Genetic, Genomic and Proteomic Approaches to Identify the ARSENIC Susceptibility and Carcinogenicity.* (Ashok K. Giri, Indian Institute of Chemical Biology, India)
3. *Toxicogenomic Approaches for Understanding the Molecular Mechanisms of Heavy Metal Mutagenicity and Carcinogenicity.* (Young Rok Seo, Institute of Environmental Medicine for Green Chemistry, South Korea)
4. *Proteomic Profiling of Albumin Enriched Fraction of Plasma from Lung Cancer Patients: A Novel Diagnostic Strategy for Environmentally Exposed Male Lung Cancer Patients.* (Rita Singh, University of Delhi, India)

Level 1 – Meeting Room 103

Session 6

Basic mechanisms of mutagenesis and carcinogenesis

**Chairs:** William Suk, National Institute of Environmental Health Sciences, USA, and Takehiko Nohmi, National Institute of Health Sciences, Japan

1. *In vivo Mutagenesis: its analysis and underlying mechanisms.* (Takehiko Nohmi, National Institute of Health Sciences, Japan)
2. *Genotoxicity induced by nanomaterials.* (Yukari Totsuka, National Cancer Center Research Institute, Japan)
3. *Basic mechanisms in spontaneous and induced mutagenesis.* (Robert Fuchs, CNRS, France)
4. *Mechanisms of liver carcinogenesis: Studies of co-morbidity factors using animal models.* (Ivan Rusyn, University of North Carolina, USA)
5. *Overview of low-dose carcinogenicity studies.* (David DeMarini, University of North Carolina, USA)

16:45 - 18:30

End of Day 1

Day 2: 28<sup>th</sup> March 2012

<p><b>08:30 – 09:15</b></p>	<p><i>Ground Level – Auditorium 2</i>  <b>Keynote Presentation:</b>  <i>Traffic related pollutants and their effects on allergic respiratory diseases</i></p> <p>Michel Aubier, Professor of Respiratory Medicine, University Denis Diderot, Paris 7, Head of Department of Chest disease, Bichat University Hospital Paris, France.</p>			
<p><b>09:15 – 09:45</b></p>	<p><b>Coffee Break &amp; Poster Display</b> (<i>Presenter may standby</i>)</p>			
<p><b>09:45 – 11:45</b></p>	<p style="text-align: center;"><b>Parallel Sessions</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p><i>Ground Level – Auditorium 2</i>  <b>Session 7</b>  <u><b>Environmental contamination and health concerns</b></u></p> <p><b>Chairs:</b> Mathuros Ruchirawat, Research and Academic Affairs Chulabhorn Research Institute, Thailand, and Radim Sram, Institute of Experimental Medicine, Czech Republic</p> <ol style="list-style-type: none"> <li>1. <i>Cytogenetic biomarkers, DNA repair efficiency and susceptibility to genotoxic exposure of lymphocytes from persons exposed to low and high doses of Iodine –131.</i> (Antonina Cebulska-Wasilewska, Institute of Nuclear Physics, Poland)</li> <li>2. <i>An Environmental Health Global Network to reduce early life exposures: knowledge translation to lessen disease burden.</i> (William “Bill” Suk, National Institute of Environmental Health Sciences, USA)</li> <li>3. <i>Recent Findings from the Health Effects of Arsenic Longitudinal Study (HEALS) in Bangladesh.</i> (Joe Graziano, Columbia University, Columbia)</li> <li>4. <i>Impact of air pollution to children health – Czech experience.</i> (Radim Sram, Institute of Experimental</li> </ol> </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <p><i>Level 1 – Meeting Room 103</i>  <b>Session 8</b>  <u><b>Epigenetics and gene-environment interactions in human disease</b></u></p> <p><b>Chairs:</b> Abdelaziz El-Bayoumi, Qatar University, Qatar</p> <ol style="list-style-type: none"> <li>1. <i>The Potential Role of Epigenetics in Mediating Environmental Toxic Effects – Evidence from Human Investigations.</i> (Andrea Bacarrelli, Harvard School of Public Health, USA)</li> <li>2. <i>Inactivation of the putative tumour suppressor gene DOK1 by epigenetic modifications in human cancers.</i> (Bakary Sylla, International Agency for Research on Cancer/WHO, France)</li> <li>3. <i>Epigenetic effects of early environmental exposures on whole genomes and repetitive elements.</i> (Christopher Faulk, University of Michigan, USA)</li> <li>4. <i>Epigenetic, environmental and genetic factors in colorectal carcinoma and Alzheimer's disease.</i> (Lucia Migliore, University of Pisa, Italy)</li> <li>5. <i>Serum organochlorines pesticides</i></li> </ol> </td> </tr> </table>		<p><i>Ground Level – Auditorium 2</i>  <b>Session 7</b>  <u><b>Environmental contamination and health concerns</b></u></p> <p><b>Chairs:</b> Mathuros Ruchirawat, Research and Academic Affairs Chulabhorn Research Institute, Thailand, and Radim Sram, Institute of Experimental Medicine, Czech Republic</p> <ol style="list-style-type: none"> <li>1. <i>Cytogenetic biomarkers, DNA repair efficiency and susceptibility to genotoxic exposure of lymphocytes from persons exposed to low and high doses of Iodine –131.</i> (Antonina Cebulska-Wasilewska, Institute of Nuclear Physics, Poland)</li> <li>2. <i>An Environmental Health Global Network to reduce early life exposures: knowledge translation to lessen disease burden.</i> (William “Bill” Suk, National Institute of Environmental Health Sciences, USA)</li> <li>3. <i>Recent Findings from the Health Effects of Arsenic Longitudinal Study (HEALS) in Bangladesh.</i> (Joe Graziano, Columbia University, Columbia)</li> <li>4. <i>Impact of air pollution to children health – Czech experience.</i> (Radim Sram, Institute of Experimental</li> </ol>	<p><i>Level 1 – Meeting Room 103</i>  <b>Session 8</b>  <u><b>Epigenetics and gene-environment interactions in human disease</b></u></p> <p><b>Chairs:</b> Abdelaziz El-Bayoumi, Qatar University, Qatar</p> <ol style="list-style-type: none"> <li>1. <i>The Potential Role of Epigenetics in Mediating Environmental Toxic Effects – Evidence from Human Investigations.</i> (Andrea Bacarrelli, Harvard School of Public Health, USA)</li> <li>2. <i>Inactivation of the putative tumour suppressor gene DOK1 by epigenetic modifications in human cancers.</i> (Bakary Sylla, International Agency for Research on Cancer/WHO, France)</li> <li>3. <i>Epigenetic effects of early environmental exposures on whole genomes and repetitive elements.</i> (Christopher Faulk, University of Michigan, USA)</li> <li>4. <i>Epigenetic, environmental and genetic factors in colorectal carcinoma and Alzheimer's disease.</i> (Lucia Migliore, University of Pisa, Italy)</li> <li>5. <i>Serum organochlorines pesticides</i></li> </ol>
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	<p>Medicine, Czech Republic )</p> <p>5. <i>Establishing a Toxins in Desert Environments (TIDE) network in Qatar.</i> (Renee Richer, Weill Cornell Medical College, Qatar)</p> <p>6. Genotoxic evaluation of occupational exposure to antineoplastic agents and its association with polymorphisms of enzymes involved in DNA repair. (Andres Felipe, Selected Oral)</p>	<p><i>level, CYP1A1 genetic polymorphism and risk of breast cancer.</i>(Fatima Hamad, Gezira University, Sudan, Selected Oral)</p>
11:45 – 13:15	<b>Lunch and Poster Display</b> (Presenter may standby)	
13:15	<b>Social Program</b> – Report to Registration Counter	
<b>End of Day 2</b>		

<b>Day 3: 29<sup>th</sup> March 2012</b>	
08:30-09:15	<p><u>Ground Level – Auditorium 2</u></p> <p><b>Keynote Presentation:</b> <i>The Unfinished Policy and Research Agenda of Incomplete Combustion: A Major Killer</i></p> <p>Kirk R. Smith, Professor of Global Environmental Health, Member of the U.S National Academy of Sciences University of California, Berkeley, USA</p>
09:15 – 10:15	<p><u>Ground Level – Auditorium 2</u></p> <p><b>QEERI Panel Discussion Session on <i>Environmental Aspects and Human Health</i></b> <b>Chair:</b> Rabi Mohtar, Qatar Institute of Environment and Energy Research Institute, Qatar</p> <p><i>Environmental quality and human health</i> Basem Shomar, Qatar Institute of Environment and Energy Research Institute, Qatar</p> <p><i>Environmental Determinants of Malaria Transmission in Africa</i> Elfatih Eltahir, Massachusetts Institute of Technology, USA</p> <p><i>Gene-Environment interactions in Environmental Pollution Health Studies</i> Ali Hamade, Independent Air Quality, Toxicology, and Environmental Health Specialist</p>

	<p><i>The relevance of deer as animal model for studying the contaminant effect on early embryo development</i>  Olga Garcia Alvarez, Spanish National Research Council, Spain</p>	
10:15 – 10:45	<b>Coffee Break &amp; Poster Presentation</b> <i>(Presenter must be available)</i>	
	<b>Parallel Sessions</b>	
10:45 – 12:15	<p style="text-align: center;"><i>Ground Level – Auditorium 2</i>  <b><u>Session 9</u></b></p> <p><b><u>Efficacy and safety of drug use in developing countries</u></b></p> <p><b><u>Chair:</u></b> Azeddine Elahjouji, Novartis Institutes for Biomedical Research, Switzerland</p> <ol style="list-style-type: none"> <li><i>Maintaining Drug Quality Standards.</i> (Atholl Johnston, University of London, UK)</li> <li><i>Title to be determined.</i> (Azeddine Elahjouji, Novartis Institutes for Biomedical Research, Switzerland)</li> </ol>	<p style="text-align: center;"><i>Level 1 – Meeting Room 103</i>  <b><u>Session 10</u></b></p> <p><b><u>Environmental contamination in adverse reproductive outcomes and non-cancer disease</u></b></p> <p><b><u>Chair:</u></b> Silvio DeFlora, University of Genoa, Italy, and David DeMarini, University of North Carolina, USA</p> <ol style="list-style-type: none"> <li><i>Genomic alterations in non-cancer diseases.</i> (Silvio De Flora, University of Genoa, Italy)</li> <li>Environmental mutagenesis in cardiovascular and eye diseases. (Alberto Izzotti, University of Genoa, Italy)</li> <li><i>Association between the Environmental risk factors and Chinese male semen quality.</i> (J. Cao, Third Military Medical University, China)</li> <li><i>Induction of germ-cell mutations by particulate air pollutants.</i> (Carole L. Yauk, Health Canada, Canada)</li> </ol>
12:15 – 13:45	<b>Lunch</b> <i>(Presenter may standby)</i>	
	<b>Parallel Sessions</b>	
13:45 – 15:30	<p style="text-align: center;"><i>Ground Level – Auditorium 2</i>  <b><u>Session 11</u></b></p> <p><b><u>Ethical issues on environmental health</u></b></p>	<p style="text-align: center;"><i>Level 1 – Meeting Room 103</i>  <b><u>Session 12</u></b></p> <p><b><u>DNA repair and signaling in response to</u></b></p>



	<p><b><u>Chairs:</u></b> Wagida Anwar, Ain Shams University, Egypt, and Ludwine Casteleyn, University of Leuven, Belgium</p> <ol style="list-style-type: none"> <li>1. <i>Privacy and Ethics in Human biomarker studies.</i> (Ludwine Casteleyn, University of Leuven, Belgium)</li> <li>2. <i>Establishment of Ethical Research Committees in Developing Countries.</i> (Wagida Anwar, Ain Shams University, Egypt )</li> <li>3. <i>Ethical Guidelines for the Use of Biological Samples in Human Research</i> (Eman Sadoun, Supreme Council of Health, Qatar)</li> <li>4. <i>Grey areas, controversies and possibilities in ethical review of environmental health research.</i> (Kip Kantelo, Weill Cornell Medical College, Qatar)</li> <li>5. <i>Environmental Impact Assesment What, When, How??.</i> (Mahmoud Hesham, Qatar University)</li> </ol>	<p><b><u>insult from environmental mutagens</u></b></p> <p><b><u>Chair:</u></b> Bernd Kaina, University Medical Center, Germany</p> <ol style="list-style-type: none"> <li>1. <i>DNA ligases I and III cooperate to mediate alternative non-homologous end-joining in vertebrates</i> (George Iliakis, University of Duisburg-Essen, Germany)</li> <li>2. <i>DNA repair and damage response in defense against ultraviolet light.</i> (Leon Mullenders, Leiden University Medical Center, Netherlands)</li> <li>3. <i>DNA damage and apoptotic signaling following sunlight.</i> (Carlos Menck, University of Sao Paulo, Brazil)</li> <li>4. <i>Transcriptional inhibition by environmental mutagens and its implications.</i> (Mats Ljungman, University of Michigan, USA)</li> <li>5. <i>DNA repair and damage response following exposure of cells with alkylating carcinogens.</i> (Bernd Kaina, University Medical Center, Germany)</li> </ol>
15:30 – 17:00	<b>Closing ceremony and award presentations – Ground Level – Auditorium 2</b>	
<b>End of Day 3 and of conference</b>		