

**VITH INTERNATIONAL CONFERENCE  
ON ENVIRONMENTAL MUTAGENS IN HUMAN POPULATIONS**

**DOHA, QATAR, MARCH 26 – 29, 2012**

**Conference Co-Chairs:**

William W. Au, Shantou University Medical College, China,  
Abdelali Haoudi, Qatar Foundation, Qatar,  
Wagida Anwar, Ain Shams University, Cairo, Egypt

**Secretariat:** Ayman Bassil, Qatar Foundation, Qatar

**CONFERENCE PROGRAM**

**March 26, 2012**

Registration

Short course on biomarkers in population and pharmaceutical research (Azeddine Elahjouji)

HUMN workshop : HUMN/HUMNxl AUTOMATED MICRONUCLEUS  
WORKSHOP USING IMAGE CYTOMETRY SYSTEMS

Chairs: Stefano Bonassi, Michael Fenech

- (I) METASYSTEMS METAFER system - Anne Vral (20 min)
- (II) IMSTAR automated system - Micheline Kirsch-Volders (20 min)
- (III) COMPUCYTE Laser Scanning Cytometry system - Michael Fenech (20 min)
- (IV) Statistical Issues for instrument validation and interlab comparison of automated systems - Stefano Bonassi (20 min)
- (V) Round-Table Discussion on Criteria for Automated Image Cytometry Micronucleus Scoring systems and the HUMN/HUMNxl interlab automated MN scoring exercise. - Panel Members (5 minutes each) Radim Sram, Ilse Decordier, Philip Thomas, Adarsh Ramakumar, Elena Holden

(Compucyte), Françoise Soussaline (IMSTAR), Christian Schunck (Metasystems), followed by open discussion with the audience.

Welcome reception (Abdelali Haoudi and William Au)

### **March 27 – 29, 2012**

- Keynote speakers:
  - 1) Her Royal Highness Professor Dr. Princess Chulabhorn of Thailand (William Au)
  - 2) Nobel Laureate, Kirt Smith, University of California, Berkeley (Nina Holland)
  - 3) Nobel Laureate in medicine, TBD (Abdelali Haoudi)
  - 4) Linda Birnbaum, NIEHS (Abdelali Haoudi)
  
- Symposia:
  - 1) Environmental contamination and health concerns (Mathuros Ruchirawat, Thailand and Radim Sram, Czech Republic)
    - a. Air pollution, climate change and population health in China, Kan Hai dong(南海东), China
    - b. Cytogenetic biomarkers, DNA repair efficiency and susceptibility to genotoxic exposure of lymphocytes from persons exposed to low and high doses of Iodine – 131, Antonina Cebulska-Wasilewska, Poland.
  - 2) Specific environmental health concerns in developing countries (Wagida Anwar, Egypt and Malyn Chulasiri, Thailand)
    - a. Adverse environmental and health effects from the electronics recycling industry in China, Huo Xia , Shantou University Medical College, China
    - b. Epidemiological, clinical and molecular studies of radiation-induced mutations of residents of the Semipalatinsk nuclear test site in Kazakstan. Bersimbay R.I., Kazakhstan
    - c. Wagida Anwar, Egypt
    - d. Malyn Chulasiri, Thailand
    - e. Visma, South Africa
  - 3) Basic mechanisms of mutagenesis and carcinogenesis (William Suk, USA and

Takehiko Nohme, Japan ; on March 27

- a. In vivo Mutagenesis: its analysis and underlying mechanisms. Takehiko Nohmi, Japan
- b. Genotoxicity induced by nanomaterials. Yukari Totsuka, Japan
- c. Basic mechanisms in spontaneous and induced mutagenesis. Robert Fuchs, France
- d. Martyn T. Smith, Ph.D., USA (not completely accepted yet)
- e. Ivan Rusyn, Ph.D., USA

4) DNA repair and signaling in response to insult from environmental mutagens  
(Bernd Kaina, Germany, and NN, Qatar)

- a. Introduction (5 min): Bernd Kaina (Germany)
- b. Cellular signaling and biological impact of ionizing radiation-induced DNA damage: Jiri Bartek (Denmark)
- c. DNA repair and damage response in defense against ultraviolet light: Leon Mullenders (Netherlands)
- d. DNA damage and apoptotic signaling following sunlight: Carlos Menck (Brasil)
- e. Transcriptional inhibition by environmental mutagens and its implications: Mats Ljungman (USA)
- f. DNA repair and damage response following exposure of cells with alkylating carcinogens: Bernd Kaina (Germany)

4) Environmental contamination in adverse reproductive outcomes and non-cancer disease (Silvio DeFlora, Italy and David DeMarini, USA)

- a. Genomic alterations in non-cancer diseases, Silvio De Flora, University of Genoa, Italy
- b. Environmental mutagenesis in cardiovascular and eye diseases, Alberto Izzotti, University of Genoa, Italy
- c. Genotoxicity and carcinogenicity of swimming pool water and drinking water, David M. DeMarini, U.S. EPA, RTP, NC, USA
- d. Association between the Environmental risk factors and Chinese male semen quality. J. Cao, China
- e. Induction of germ-cell mutations by particulate air pollutants,

Carole L. Yauk, Health Canada, Ottawa, ON, Canada

- 5) Biomarkers for human population studies (Stefano Bonassi, Italy and Ali Karakaya, Turkey)
    - a. Population studies for health and genetic risk assessments. William W. Au, Shantou University Medical College, China.
    - b. Chromosome damage and the damage repair capacity in Chinese Vinyl Chloride Monomer-exposed workers. Xia Zhao-lin, Fudan University, China
  - 6) Gene-environment interactions or epigenetics for human disease (Nina Holland, USA and a scientist from Qatar)
  - 7) Genomic and proteomic technologies in environmental health (Young Seo, Korea and Ashok Giri, India)
  - 8) Novel strategies to protect against environmental mutagenesis and carcinogenesis (Young Joon Surh, Korea and .....)
  - 9) Application of scientific knowledge for disease prevention (Bruce Fowler, USA; Michael Wilhelm, Germany)
    - a. Translation of molecular biomarkers for prevention of chemical-induced diseases: roles of computational toxicology. Bruce Fowler, Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, USA.
    - b. Human biomonitoring studies for exposure and risk assessment. Michael Wilhelm, Germany
- Poster sessions: There will be two poster sessions, with judging to provide poster presentation awards (Ayman Bassil, William Au and .....).

Social programs: cultural sight-seeing tours and a farewell dinner (Abdelali Haoudi, William Au, Ayman Bassil and Wagida Anwar) <http://www.world66.com/asia/middleeast/qatar/doha>

**March 30, 2012:**

Transportation to airport and departure for homes