



**ALEXANDER HOLLAENDER COURSE  
ON GENETIC TOXICOLOGY:  
Genomic and Proteomic Approaches**

**AND  
A SPECIAL WORKSHOP ON ARSENIC EXPOSURE  
ASSESSMENT**

**December 10 - 12, 2008  
Indian Institute of Chemical Biology  
Kolkata – India**

**A Satellite hands on Workshop on Genetic Toxicology  
will be Held at the  
Indian Institute of Toxicology Research  
Lucknow, India from December 15 – 17, 2008.**



## GENERAL INFORMATION

The Alexander Hollaender course (AHC) is organized every year in countries where environmental mutagenesis and health issues are of major concerns. Previous ones are listed below:

- 1) Mexico City, Mexico, 1993, Chaired by Dr. Patricia Ostrosky-Wegman
- 2) Buenos Aires, Argentina, 1994, Chaired by Dr. Marta A. Carballo
- 3) Cape Town, South Africa, 1996, Chaired by Dr. Wagida Anwar
- 4) Cairo, Egypt, 1997, Chaired by Dr. Wagida Anwar
- 5) Curitiba, Brazil, 1998, Chaired by Dr. Lucía R. Ribeiro
- 6) Harare, Zimbabwe, 1999, Chaired by Dr. Julia Hasler
- 7) Popayan, Colombia, 2000, Chaired by Dr. Luz Stella Hoyos
- 8) Shanghai, China, October 30-31, 2001; Dr. Jerry Shey
- 9) Warsaw, Poland, 2002, Chaired by Dr. Antonina Cebulska-Wasilewska
- 10) Iasi, Romania, 2004, Chaired by Dr. Luminita S. Iancu
- 11) Fez, Morocco, November 27, 2005; Dr. Fatma Squali

12) Chillán, Chile, 2006, Chaired by Dr. Enrique Zamorano-Ponce

13) Cartagena, Colombia, 2007, Chaired by Dr. Elena Groot

The 14<sup>th</sup> AHC will be hosted by Indian Institute of Chemical Biology, Kolkata and the Indian Institute of Toxicology Research, Lucknow, India. The AHC is made up of a lecture course in Kolkata and hands on workshop in Lucknow. The course and workshop are intended to review the advance in environmental mutagenesis and health, particularly relating to the following topics:

(1) Population monitoring for health hazards (2) Mutagenic hazards of environmental toxic substances (3) Current and novel mutagenic assays (4) Mechanisms of mutagenesis and carcinogenesis (5) Environmental mutagens and health research in Asia (6) Genomic and proteomic approaches in genetic toxicology.

**Invitation:** You are cordially invited to attend the 14th Alexander Hollaender Course to be held on December 10 – 12, 2008 in Kolkata and satellite workshop, December 15 - 17, 2008 in Lucknow. The course and satellite workshop will provide you with opportunities to present results of your current research, to participate in lectures delivered by eminent scientists, to exchange ideas with colleagues from other countries, to earn technical expertise and to gain rewarding cultural experience in India.

Applications are requested from all scientists, teachers and especially from graduate students (at least 3 years research experience) working in different Universities and Institute in India and abroad, in the field of Environmental Mutagenesis, Molecular Epidemiology and Environmental Health. For participation in Kolkata Course, the applicants are required to send a brief C.V. (1-2 pages) and a synopsis of their present research work (within 250 words) to Dr. A. K. Giri at [akgiri15@yahoo.com](mailto:akgiri15@yahoo.com) or [akgiri@iicb.res.in](mailto:akgiri@iicb.res.in). Each application will be scrutinized carefully and the best 40 will be selected for participation (30 from India and 20 from foreign countries). **Hard copies of application will not be entertained. Last date of submission of completed C.V. and Synopsis is September 30, 2008.** Individuals interested in attending the Lucknow satellite hands on workshop will have to apply separately to Dr. Alok Dhawan. For details about satellite hands on workshop at Lucknow (Dec 15 – 17, 2008), please contact Dr. Alok Dhawan (email: [dhawanalok@hotmail.com](mailto:dhawanalok@hotmail.com) or [alokdhawan@yahoo.com](mailto:alokdhawan@yahoo.com)).

**Language:** The official languages of the course will be English. No simultaneous translation will be available.

**Poster Presentation:** Each participant of the Kolkata workshop (except from the speakers) is required to present a poster depicting his/her work. The size of the poster shall be 36" X 42".

**Registration:** Selected participants will have to send their registration fees to Dr. A. K. Giri, Organizing Secretary, 14<sup>th</sup> Alexander Hollaender Course, Deputy Director, Molecular and Human Genetics Division, Indian Institute of Chemical Biology, Kolkata – 700 032, India, only by demand draft drawn in favor of “Organizing Secretary – 14<sup>th</sup> AHC” payable at Kolkata. To avoid the foreign currency conversion problem in the bank, foreign participants will have to pay their registration fees in Indian Rupees at the time of registration.

**Registration Fees for Kolkata Course:**

Indian Participants	Rs. 3000.00
Foreign Participants	Rs. 3000.00

**Organization:** Indian Institute of Chemical Biology, Kolkata- 700 032, India

**National Advisory Board:**

Dr. Samir K. Bramhachari, Director General, CSIR, New Delhi  
Dr. T. Ramasami, Secretary, Dept. of Science and Technology, Govt. Of India  
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Dr. William Au, Chairman (University of Texas Medical Branch, USA),  
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Dr. Mat Ljungman (University of Michigan, USA)  
Dr. Patricia Ostrosky (Autonomous National University, Mexico)

**14<sup>th</sup> AHC Chairmen:** Dr. Ashok K. Giri; [akgiri@iicb.res.in](mailto:akgiri@iicb.res.in), or, [akgiri15@yahoo.com](mailto:akgiri15@yahoo.com)  
Dr. William Au; [William.au@utmb.edu](mailto:William.au@utmb.edu)

**Organizing and Program Committee:** Co-chaired by:

W. Au (University of Texas), D. DeMarini (EPA-USA), A. K. Giri (I.I.C.B., Kolkata) and Dr. Alok Dhawan (IITR, India)

**Tentative Invited Plenary Speakers (6)**

1. Dr. William Au (University of Texas Medical Branch, Galveston, Texas, USA)
2. Dr. Stefano Bonassi (Environmental Epidemiology and Biostatistics". Istituto Nazionale per la Ricerca sul Cancro, Italy)
3. Dr. David DeMarini (USEPA, USA)
4. Dr. Nina Holland (University of California, Berkeley, California, USA)
5. Prof. J. Christopher States (Department of Pharmacology, University of Louisville, USA)
6. Prof. Keshav K. Singh (Roswell Park Cancer Institute, USA)

**Tentative Invited Speakers (22)**

1. Dr. Rakhmetkaji I. Bersimbaev (Al-Farabi Kazakh Nacional University, Kazakhstan)
2. Dr. Takehiko Nohmi (National Institute of Health Sciences, Japan)
3. Dr. Malyn Chulasiri (Mahidol University, Thailand)
4. Salmaan H Inayat-Hussain (Universiti Kebangsaan Malaysia, Malaysia)
5. Dr. David Polya (University of Manchester, U.K.)
6. Prof. Animesh Jha (University of Leeds, U.K.)
7. Prof. Jon Lloyd (University of Manchester, U.K.)
8. Dr. Marina Hery (University of Manchester, U.K.)
9. Dr. Debapriya Mondal (University of Manchester, U.K.)

10. Dr. Siegfried Knasmuller (Institute of Cancer Research, University of Vienna, Vienna, Austria)
11. Prof. Allan Smith (University of California, Berkeley, USA)
12. Dr. Shilla Chakrabarty (University of Texas Medical Branch at Galveston, USA)
13. Dr. Hiroshi Kasai (Institute of Industrial Ecological Sciences, University of Occupational and Environmental Health, Kitakyushu, Japan)
14. Prof. Elmar Richter (Walther Straub Institute, Munich, Germany)
15. Dr. Akhilesh Pandey (Institute of Bioinformatics, Bangalore, India)
16. Dr. Bhaswati Ganguli (University of Calcutta, Kolkata, India)
17. Dr. Channa Keshava (U.S. EPA, Research Triangle Park, USA)
18. Professor Antonina Cebulska-Wasilewska (Department of Radiation and Environmental Biology, The Henryk Niewodniczanski Institute of Nuclear Physics, Kraków, Poland)
19. Dr. Brinda Mahadevan (Schering-Plough Research Institute, NJ, USA)
20. Dr. A. K. Giri (I.I.C.B., Kolkata, India)
21. Dr. Alok Dhawan (Indian Institute of Toxicology Research, Lucknow, India)
22. Dr. B. C. Das (Institute of Cytology and Preventive Oncology, New Delhi, India)

**Course Venue:** The 14th AHC will take place at Indian Institute of Chemical Biology ([www.iicb.res.in](http://www.iicb.res.in)) situated in the heart of the metropolis of Kolkata, 1hr from the Netaji Subhas Chandra Bose International Airport. The local organizing committee will provide convenient transportation links for participants once they reach Kolkata. The satellite hands on workshop will take place in the Indian Institute of Toxicology Research, Lucknow.

**Financial support:** The host intends to provide support for registration fee, local transportation, accommodation and food expenses for all plenary and invited speakers in Kolkata. All plenary and invited speakers are expected to cover their own travel expenses to Kolkata.

Course participants will have to pay the registration fee as mentioned above. They will have to cover their travel expenses to Kolkata on their own. The host will provide them free accommodation in the Institute or University Guest Houses as available, and food and local transportation from Dec 9 – 12, 2008.

**Tentative Scientific Program (To be updated soon)**

*Hollaender course, Kolkata, India, Dec. 10 – 12, 2008.*

**Course Co-Directors:** *Dr. Ashok Giri ([akgiri@iicb.res.in](mailto:akgiri@iicb.res.in), or, [akgiri15@yahoo.com](mailto:akgiri15@yahoo.com), India) and Dr. William Au ([William.au@utmb.edu](mailto:William.au@utmb.edu), USA)*

**I. Population monitoring for health hazards**

- a) Dr. Nina Holland – “Molecular Epidemiology of Children environmental health”.
- b) Dr. Stefano Bonassi – “Genetic monitoring of human populations: Risk evaluation and prevention”.

**II. Mutagenic hazards of environmental toxic substances**

- a) Dr. David DeMarini – “Air Pollutants: Genotoxicity of tobacco, smoke and tobacco smoke condensate”.

- b) Dr. Malyn Chulasiri – “Phytoprotection of UV-induced Genotoxicity in Photoaging”.
- c) Dr. Alok Dhawan – “Genotoxicity of Nanoparticles”
- d) Dr. Shilla Chakrabarty- “Deleterious Effects of Polynuclear Aromatic Hydrocarbons on Female Reproductive Tissues”.
- e) Dr. Brinda Mahadevan- “Environmental complex mixture and their influence on genotoxicity, carcinogenesis and gene expression”

### **III. Current and novel mutagenic assays**

- a) Dr. Takehiko Nohmi – “Transgenic in vivo genotoxicity assays: basic features and the possible applications”.
- b) Salmaan H Inayat-Hussain – “Cytotoxicity and apoptosis- Relevance for mutagenicity testing?”
- c) Dr. Hiroshi Kasai – “Analysis of 8-OH-dG as a marker of oxidative stress”
- d) Prof. Elmar Richter – “Biomonitoring of TSNA exposure: Hemoglobin and DNA adducts releasing 4-hydroxy-1-(3-pyridyl)-1-butanone (HPB) in nonsmokers, smokers and snuffers”
- e) Dr. Channa Keshava- “Use of genotoxicity data and integration of toxicogenomic information into mode of action analyses for cancer risk assessment”

### **IV. Mechanisms of mutagenesis and carcinogenesis**

- a) Dr. William Au – “Life Style, environmental and genetic susceptibility to Cancer”.
- b) Prof. Keshav K. Singh – “Genomic changes associated with carcinogenesis”.
- c) Dr. Stefano Bonassi – “Molecular Epidemiology of malignant mesothelioma”.
- d) Prof. Antonina Cebulska-Wasilewska- “Molecular and genetic factors influence on DNA repair efficiency and health hazard”

### **V. Environmental mutagens and health research in Asia**

- a) Dr. A. K. Giri – “Health effects, genetic damage and genetic variants in the population exposed to arsenic through drinking water”.
- b) Dr. Rakhmetkaji I. Bersimbaev – “Human health and the environment in Kazakhstan”.

### **VI. Genomic and proteomic approaches in genetic toxicology**

- a) Prof. J. Christopher States – “Transplacental arsenic induced changes in liver gene expression”.
- b) Dr. Akhilesh Pandey- “Mass spectrometry for analysis of genomes”
- c) Dr. B. C. Das - “Toxicogenomics and Cancer”.
- d) Dr. Siegfried Knasmuller – “Use of conventional and -omics based methods for the detection of dietary antioxidants”

### **VII. Special workshop on arsenic exposure assessment**

- a) Dr. David Polya – “Spatial distribution of arsenic hazard in groundwaters”.
- b) Prof. Animesh Jha – “Problems of quantification of Arsenic in Different Valence States, New Measurement Techniques and Zero Waste Remediation Technologies for Groundwater Treatment”.
- c) Prof. Allan Smith – “Long term risks from exposure to arsenic in drinking water”.
- d) Prof. Jon Lloyd (Topic to be announced soon).
- e) Dr. Marina Hery – “Molecular Ecology of Arsenic mobilisation in SE India aquifers”.
- f) Dr. Bhaswati Ganguli (Topic to be announced soon).
- g) Ms. Debapriya Mondal (Topic to be announced soon).

**VII. Poster sessions**

**VIII. Concluding session and recommendations for future research**

**IX. Cultural program in the afternoon on December 12, 2008.**

**Detailed program schedule will be posted later.**