



Ministry of Education and Science
Republic of Kazakhstan

L.N.Gumilyov Eurasian National University

THE 15th ALEXANDER HOLLAENDER COURSE

GENOME-ENVIRONMENT INTERACTIONS
AND GENETIC TOXICOLOGY

September 23 – 26/27, 2009
ASTANA, KAZAKHSTAN



International Association of
Environmental Mutagen Societies



The University of Texas
Medical Branch



Environmental Mutagen Society

Course Directors:

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GENERAL INFORMATION

The Alexander Hollaender course (AHC) is organized every year in countries where environmental mutagenesis and health issues are of major concerns. Previous courses 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, 2001, Chaired by 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, 2005, Chaired by Dr. Fatma Squali
- 12) Chillán, Chile, 2006, Chaired by Dr. Enrique Zamorano-Ponce
- 13) Cartagena, Colombia, 2007, Chaired by Dr. Elena Groot
- 14) Kolkata/Lucknow, India, 2008, Chaired by Dr. Ashok Giri and Dr. Alok Dhawan

The 15th AHC will be sponsored by the L.N. Gumilyov Eurasian National University, National Research Medical Center, Astana, Kazakhstan; Environmental Mutagen Society and the Association for Environmental Mutagen Societies. The course will contain symposia with presentations from internationally known scientists, oral and poster presentations by course participants, and a scientific workshop.

Location and date

The L.N. Gumilyov Eurasian National University, 5 Munaitpassov Str., Astana, Kazakhstan, September 23 to September 26/27, 2009

Invitation

You are cordially invited to attend the 15th Alexander Hollaender course to be held on September 23 – 26/27, 2009, **Astana, Kazakhstan**. The course is organized to provide the state-of-the-art knowledge in the field of environmental mutagenesis and health. Activities will be organized to maximize the exchange of knowledge and to develop collaborations. Applications are requested from scientists, teachers and from graduate students working in Universities and Research Institutes in Kazakhstan and abroad, in the field of Genome-Environment Interactions/Ecology, Molecular Epidemiology and Environmental Health. Information will be provided upon request to Dr. R. Bersimbayev (e-mail: ribers@mail.ru) or Ms. Olga Bulgakova (e-mail: olga_biotech@mail.ru)

Social activities will be organized to showcase the history and custom of Kazakhstan and to facilitate the exchange of cultural experiences.

Astana

Astana, the capital of the Republic of Kazakhstan since 1997, is situated on a picturesque bank of the Ishim River. Since acquiring the status of capital, the city has undergone extensive re-organization. The architects and builders have and continues to create wonderful architectural ensembles which harmoniously combine modern design and oriental flair. The Baiterek Tower has become the city's symbol and its visiting card. The height of the structure is 97 meters and on the top of the monument there is an observation deck providing a bird's eye view of the city. The figure of 97 symbolizes the year of the relocation of the capital from Almaty to Astana. Astana currently has become one of the largest business centers in the region. All governmental organizations, the diplomatic missions of 44 countries and 113 joint ventures and foreign businesses are located here.

Language

Symposium presentations in English will be sequentially translated into Russian or Kazakh. Poster presentations can be presented in the English, Kazakh or Russian languages.

Poster Presentation

Each participant (except from the speakers) is encouraged to present a poster describing his/her work. The space allocated for each poster is 1.5 m (H) x 1.0 m (W). Illustrative materials have to be read from a distance of approximately 1 meter, so lettering should be large enough and preferably in bold.

Registration

For registration to the course, please contact: Olga Bulgakova (E-mail: olga_biotech@mail.ru). Registration fee is 20 USD per participants from developing countries and 100 USD per participants from other counties.

Registration fee should be paid on or before August 24, 2009. The information for bank wire transfer is as follows:

Account name: **L.N.Gumilyov Eurasian National University, Munaitpassov str. 5,
Astana, Kazakhstan**
Bank name: **TSESNABANK, Astana, Kazakhstan**
Account number: **005070011 USD**
SWIFT CODE: TSESKZKA

International bank correspondent: **CITIBANK N.A.
NEW YORK, USA.
Account number: 36128188
SWIFT CODE: CITIUS33**

Please inform Olga Bulgakova of the transfer via email.

Financial support

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

Other course participants will have to pay the registration fees. They have to cover their travel expenses to Astana and food on their own. The host will provide them free accommodation in the University Guest House.

Organizing Committee

Dr.Bakhytzhan Zh.Abdraimov, *Chair, Rector of the Eurasian National University*

Dr.Rakhmetkazhi I. Bersimbayev, *Program Committee Chair*

Dr.William W.Au (USA), *International Advisory Board Chair*

Dr.A. Sagintaeva

Dr.Tamara M. Shalakmetova

Dr.Abai K.Baygenzhin

Dr.Almaz T. Sharman

Dr.N.Shapekova

International Advisory Board

Dr. William Au, Chairman (USA)

Dr. Stefano Bonassi (Italy)

Dr. Antonina Cebulska-Wasilewska (Poland)

Dr. David DeMarini (USA)

Dr. Ashok Giri (India)

Dr. Margarida Goulart de Madiero (Portugal)

Dr. Mat Ljungman (USA)

Dr. Radim Sram, (Czech Republic)

Dr.W.A.Anwar (Egypt)

Dr.Sepideh Arbabi (Iran)

Local Organizing committee

Dr.Rakhmetkazhi I. Bersimbayev

Dr.Tamara M. Shalakmetova

Dr.Alikhan Kh.Dosakhanov

Dr.Zhaksybay Zhumadilov

Dr.Sardarbek A. Abiev

Dr.Marar R. Khanturin

Dr.Leyla B.Djansugurova

Dr.Zaure G. Aytasheva

Dr.Bakhytzhan O.Bekmanov

Dr.Nazym K.Bolegenova
Dr.Zeinep A.Bulentaeva
Olga Bulgakova
Talgat Yechshzhanov

Scientific Program schedule

22 September, Tuesday

Arrival and registration

23 September, Wednesday

9:00-10:30 Registration

Opening ceremony

Conference Hall of the L.N.Gumilyov Eurasian National University

11:00-11:30 Welcome address

1. Dr.Bakhytzhan Zh.Abdraimov, *Chair, Rector of the Eurasian National University*
2. Dr.William W.Au (USA), *International Advisory Board Chair*
3. Dr.Rakhmetkazhi I. Bersimbayev, *Program Committee Chair*

11:30-12:30 Plenary lecture

Dr.Peter Stambrook (University of Cincinnati, USA) – Challenges and solutions to problems with environmental mutagens.

12:30-14:30 Lunch

Symposia (25 minutes talk per speaker for 45 minutes with translation)
Room 303 (University Main Building)

14:30-16:00

Symposium: “ Environmental and health concerns from ionizing radiation”

Chairpersons: Prof.Tamara Shalakmetova (Kazakhstan)
Prof. Eugen Gursau (Romania)

- a. Rakhmetkazhi I. Bersimbayev, Kazakhstan: Biomonitoring of populations from ecologically hazardous areas in Kazakhstan
- b. Antonina Cebulska-Wasilewska, Poland: Ionizing radiation and biological and health consequences
- c. Taisei Nomura, Japan:

16:00-18:00

Symposium : “Biomarkers for human population studies”

Chairpersons: Prof. Rakhmetkazhi Bersimbayev (Kazakhstan)
Prof. Antonina Cebulska-Wasilewska (Poland).

- a. William W. Au, USA: Traditional and new biomarkers for evaluation of health risk in populations.
- b. Panida Navasumrit, Thailand: Evaluation of health risk in a population exposed to heavy environmental pollutants.

18:00-18:30 Coffee break

18:30-19:30 Short oral presentation session (10 minutes per speaker)

Moderator: Prof. Zaure Aitasheva (Kazakhstan)

One session will be available for junior scientists and graduate students to present scientific papers.

- a. Zeinep Bulentayeva
- b. Nazym Bolegenova
- c. Talgat Yechshzhanov
- d. Olga Bulgakova
- e. Bakytjan Bekmanov

20:00 Reception Dinner

24 September, Thursday

10:00-12:00

Symposium : “Mechanisms of mutagenesis and carcinogenesis”

Chairpersons: Prof. Rashid Kulmatov (Uzbekistan)
Prof. Radim Sram (Czech Republic)

- a. Sepidah Arbabi, Iran: Role of hormonal and environmental factors on early incidence of breast cancer in Iran
- b. Alok Dhawan, India: Multipronged approach in unraveling the mechanism of genotoxicity of benzene and its metabolites
- c. Anca Gurzau, Romania: Toxicological hazards from the consumption of trihalomethane in drinking water
- d. Peter Stambrook, USA: Genetic variants in a DNA damage response pathway and susceptibility to cancer in mice and humans

12:00-12:30 Coffee break

12:30-13:45

Symposium : “Environmental and health concerns from contaminants in Asia”

Chairpersons: Prof. Sepidah Arbabi (Iran)
Prof. Alok Dhawan (India)

- a. Rashid Kulmatov, Uzbekistan: Environmental and health concerns from water contamination and shortages in Aral Sea basin
- b. Tamara Shalakmetova, Kazakhstan: Environmental contamination and toxicology in the Soyuz launch site in Kazakhstan.
- c. Abolamir Allameh, Iran: Over expression of class P-gluthatione S-transferase in esophageal squamous cell carcinoma in patients living in a high-risk region of Caspian sea littoral of Iran

13:45-15:00 Lunch

15:00-16:15

Symposium : “Application of scientific knowledge for disease prevention”

Chairpersons: Prof. Abai Baygenzhin (Kazakhstan)
Prof. Ali Karakaya (Turkey)

- a. Radim Sram, Czech Republic: Identification of health risk for prevention of in utero exposure to environmental contaminants.

- b. Ali Karakaya, Turkey: From toxicological findings to regulations to protect human health and environmental
- c. Eugen Gurzau, Romania: Environmental health problems and their prevention.

16:15-17:45 Poster session

There will be one poster session.

18:00-20:00 Workshop (60 minutes per session)

- a. William W. Au, USA: Experimental design and selection of biomarkers for population monitoring studies
- b. Radim Sram, Czech Republic: Interpretation of biomarkers for risk assessment

25 September, Friday

Social and cultural activities

09:00-12:00 Sight-seeing tour in Astana

12:00-13:30 Lunch

14:00 Departure for invited speakers and foreign participants to Burabai health resort with one overnight stay at the resort, and a farewell dinner.

26 September, Saturday

18:30 Arrival to hotel in Astana

27 September, Sunday

Departure