



Japan-China Scientific Cooperation Program

Joint Seminar on Air Pollution and Its Health Effects in China and Japan

2009. 8. 3 (Mon.) 9:00 - 17:30

Hyogo College of Medicine, Meeting Room No. 3

(Building No. 10)

Nishinomiya, Hyogo, Japan

Corresponding to:

Professor Masayuki SHIMA, M.D., Ph.D.

**Department of Public Health, Hyogo College of
Medicine**

**1-1, Mukogawa-cho, Nishinomiya, Hyogo 663-8501,
JAPAN**

Tel: +81-798-45-6565

Fax: +81-798-45-6567

E-mail: shima-m@hyo-med.ac.jp

Joint Seminar on Air Pollution and Its Health Effects in China and Japan

9:00 Opening remarks

1st Session: Traffic-related air pollution

(Chair: Shiro Sakurai and Weimin Song)

9:10 1. Traffic-related air pollution and asthma in children living along trunk roads in Japan
Masayuki Shima (Dept of Public Health, Hyogo College of Medicine, Japan)

9:30 2. Recent research progress in traffic pollution related health effects in China
Xinbiao Guo and Furong Deng (Peking University School of Public Health, China)

9:50 3. Personal exposure to PM_{2.5} of children living near traffic road in Beijing and the possible influencing factors
Furong Deng, Xin Wang, Huijuan Su, Shaowei Wu, Haibo Lv and Xinbiao Guo
(Peking University School of Public Health, China)

10:10 4. The children's personal exposure levels of nitrogen oxides and its impact on pulmonary function, Beijing
Hong Liu, Furong Deng, Xin Wang, Shaowei Wu, Haibo Lv and Xinbiao Guo
(Peking University School of Public Health, China)

<< Coffee break 10:30-10:40 >>

10:40 5. Pedestrian exposure to particulate matter along trunk road in Tokyo
Kenji Tamura¹, Yoshinori Kondo¹, Shuichi Hasegawa¹, Hiroshi Nitta¹, Shiro Sakurai²
(¹ National Institute for Environmental Studies, Japan, ² Dept of Environmental Science, School of Social Information Studies, Otsuma Women's University, Japan)

11:00 6. Recent change in contributors to atmospheric polycyclic aromatic hydrocarbons and nitropolycyclic aromatic hydrocarbons in Shenyang, China
Ning Tang¹, Kenji Tamura², Takayuki Kameda¹, Akira Toriba¹ and Kazuichi Hayakawa¹
(¹ Graduate School of Natural Science and Technology/ Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan, ² National Institute for Environmental Studies, Japan)

11:20 7. Determination of gaseous organic compounds in Hyogo Prefecture, Japan
Ryoji Yamamoto and Masayuki Shima
(Dept of Public Health, Hyogo College of Medicine, Japan)

11:40 8. Characterization of PM_{10-2.5} and PM_{2.5} collected in the roadside atmosphere
Kenji Tawara and Masayuki Shima
(Dept of Public Health, Hyogo College of Medicine, Japan)

<< Lunch Time 12:00-13:00 >>

2nd Session: Experimental studies

(Chair: Ryoji Yamamoto and Xiaohong Zhao)

- 13:00 9. Susceptibility of lung injury caused by atmospheric fine particles
Weimin Song, Qiang Cao and Rongfang Jiang
(School of Public Health, Fudan University, China)
- 13:20 10. Study on the toxicological effects of extracts of fine particles on vascular endothelial cells
Jinzhao Zhao, Weimin Song and Rongfang Jiang
(School of Public Health, Fudan University, China)
- 13:40 11. Research advances on sulfur dioxide toxicology in China
Quan-xi Zhang and Zi-qiang Meng
(Institute of Environmental Medicine and Toxicology, Shanxi University, China)
12. The vasorelaxant effect of endogenous gaseous sulfur dioxide on aortic rings and its mechanism: A comparison with sulfite effects and SO₂ biosynthesis and regulation
Zi-qiang Meng, Jun-ling Li, Quan-xi Zhang, Wei-ming Bai, Zhen-hua Yang, Fa-qi Wang and Ying Zhao
(Institute of Environmental Medicine and Toxicology, Shanxi University, China)
- 14:10 13. The study of the damage area and its mechanisms induced by PM_{2.5} from Beijing urban in A549 cells
Xiaohong Zhao, Xuan Liu, Guifang Zu and Hui Peng
(Dept of Biology, College of Applied Arts and Sciences, Beijing Union University, China)
- 14:30 14. Application of a new method using PIXE to analyze fluoride and multi-elements in environmental samples.
Shiro Sakurai (Dept of Environmental Science, School of Social Information Studies, Otsuma Women's University, Japan)

<< Coffee break 14:50-15:00 >>

3rd Session: Epidemiologic studies

(Chair: Shin Yamazaki and Haidong Kan)

- 15:00 15. Adverse health effects of air pollution: mortality and quality of life
Shin Yamazaki (Dept of Epidemiology and Healthcare Research, Graduate School of Medicine and Public Health, Kyoto University, Japan)
- 15:20 16. Effects of different level of air particulates on respiratory functions in adults in Beijing
Xiaoming Song¹, Xiaofeng Jia¹, Furong Deng¹, Xinbiao Guo¹, Kenji Tamura² and Masayuki Shima³
(¹ School of Public Health, Peking University Health Science Center, Beijing, China, ² National Institute for Environmental Studies, Tsukuba, Japan, ³ Hyogo College of Medicine, Hyogo, Japan)
- 15:40 17. Air pollution and preterm birth in Taiyuan, Shanxi, China between 2006 and 2007
Zhao Baoxin, Zhang Yanping, Xue Xiaoping and Zhang Zhiqin
(Taiyuan center for disease control and prevention, Taiyuan, Shanxi, China)
- 16:00 18. Air pollution and population health in China
Haidong Kan (School of Public Health, Fudan University, China)
- 16:20 19. Effect of particulate air pollution on the respiratory health of college students
Lu Ma (School of Public Health, Wuhan University, China)
- 16:40 20. The levels of partial macroelements and microelements in whole blood in children in Haidian district in Beijing
Na Luo¹, Shouliang Ma¹, Jing Li¹ and Xin Wang²
(¹ The Hygiene institute of Education Commission of Haidian District, Beijing China, ² Dept of Occupational & Environmental Health Science, School of Public Health Peking University, Beijing China)
- 17:00 21. An ecological study of lung cancer mortality and severe air pollution in the 1960s in an industrial city in Japan
Yoshiko Yoda and Masayuki Shima
(Dept of Public Health, Hyogo College of Medicine, Japan)
- 17:20 Closing remarks

<< Reception (Novotel Koshien) 18:30-20:30 >>

Information for Presenters

1. A PowerPoint projector is available in the meeting room, but a slide projector and an overhead projector are not provided.
2. A personal computer (Windows XP and Microsoft PowerPoint 2003 version) is prepared for your presentation. You are required to bring your PowerPoint file (Only Windows version is accepted) as an USB memory stick or a CD-ROM.
3. You can use your own PC for your presentation. In that case, you are required to submit your PowerPoint file for the report of the seminar.
4. Presentation time: 20 minutes (15 minutes for presentation and 5 minutes for discussion).
If you present in Chinese or Japanese, you are requested to keep your presentation within 8 minutes.

Smoking policy

Smoking is prohibited inside the college.

Location



**Hyogo College of Medicine
Meeting Room No. 3
(Building No. 10)**