(人類生態学特論 I) Lecture Schedule of <u>Human Ecology I,</u> 2009 (for Graduate Course)

April 16, 2008

This course will be a journal club, in which we will discuss selected papers relevant to the field of human ecology, which deals with the interaction between human population and their environment in a broad sense, hence, is one of the basic foundations of International Health. Asian and Oceanian perspectives will be also emphasized. Each student is required to do a 30-40 minutes presentation to summarize/comment on one paper during the course. The presentation should be in English; handout is required, and a projector (for Powerpoint presentation) is available. In each week, two papers dealing with one of the six sub-areas (as listed below) will be presented and discussed. Credit will be given based on presentation and participation to the discussion.

Those who are interested in taking the course **should contact Prof. Watanabe** or **Dr. Umezaki** through e-mail or fax **by April 24th (Friday)**, and **indicate which sub-area you are interested** in to present a paper (please also indicate your second priority area, perhaps we need to make adjustment). Then, fixed schedule with reading assignments will be announced by April 28th (Tuesday).

Date and time: Friday 9:30 -- 12:00 a.m. May 8, 15, 29 June 5, 12, 19, 26 (7 weeks)

Room: Meeting Room of Department of Human Ecology

(E604, 6th floor at <u>Annex of Med. No.3 building</u> 医学部 3 号館別棟) Sub-areas:

1. Ecology of Nutrition/Diseases,

2. Sustainability, urbanization and health,

3. Environmental risks, 4. Human biology,

5. Ecological anthropology, 6. Demography

* 7 International health and human ecology (special lecture; details TBA) CONTACT:

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List of articles to be chosen by students for presentation:

Most of the articles, except for three references marked with #, should be available from e-journal site. If you cannot locate them, contact with us.

1. Ecology of Nutrition/ Ecology of Diseases

* Sudo et al. Gender differences in dietary intake among adults of Hindu communities in lowland Nepal: assessment of portion sizes and food consumption frequencies. *European Journal of Clinical Nutrition*, 60; 469-77, 2006.

* Mascie-Taylor CGN and Karim E: The Burden of Chronic Disease, *Science* 302, 1921-2, 2003.

* Finch CE and Crimmins EM: Inflammatory exposure and historical changes in human life-spans. *Science* 305, 1736, 2004

* Rogan W and Chen A.: Health risks and benefits of bis(4-chlorophenyl)-

-1,1,1-trichloroethance (DDT). Lancet 366, 763-73, 2005

*Kelly-Hope, Lessons from the past: managing insecticide resistance in malaria control and eradication

programmes Lancet Infectious Diseases, 8, 387 - 389, 2008 (Personal View)

2. Sustainability, urbanization and health

* Dye C, et al. Health and urban living. Science 319, 766, 2008.

- * Patz JA et al. Impact of regional climate change on human health. Nature 438, 310-317
- * Imhoff ML et al. Global patterns in human consumption of net primary production Nature 429, 870-873
- * Butler et al. Farmland Biodiversity and the Footprint of Agriculture. Science 315, 381, 2007
- 3. Environmental risks
- * Somers, CM et al. Reduction of Particulate Air Pollution Lowers the Risk of Heritable Mutations in Mice. Science 304, 1008, 2004
- * Vahter ME: Interactions between arsenic-induced toxicity and nutrition in early life. *Journal of Nutrition* 137, 2398-2804, 2007.
- * Berkowitz GS et al. *In utero* pesticide exposure, maternal paraoxonase activity, and head circumference. *Environmental Health Perspectives* 112, 388-91, 2003.

4. Human biology

- * Nepomnaschy et al. Stress and female reproductive function: A study of daily variations in cortisol, gonadotrophines, and gonadal steroids in a rural Mayan population. *American Journal of Human Biology* 6, 523-32, 2004.
- * Sanderson WC and Scherbov S: Average remaining lifetimes can increase as human populations age, Nature 435, 811-813
- 5. Ecological anthropology/Health GIS
- # Ulijaszek SJ and Strickland SS (1993) Nutritional studies in biological anthropology. In Lasker GW and Mascie-Taylor CGN eds. Research Strategies in Human Biology. Cambridge University Press, pp. 108-139.
- * Satoshi Sasaki*, Hiroshi Suzuki, Kumiko Igarashi, Bushimbwa Tambatamba, AND Philip Mulenga (2008) Spatial Analysis of Risk Factor of Cholera Outbreak for 2003–2004 in a Peri-urban Area of Lusaka, Zambia. Am. J. Trop. Med. Hyg., 79(3), 2008, pp. 414-421
- * Umezaki, M. and Ohtsuka, R. (2003). Adaptive strategies of Highlands-origin migrant settlers in Port Moresby, Papua New Guinea. Human Ecology, 31: 3-25.

6. Demography

- * # Rothman KJ (2002) Chapters 1 and 2 of "Epidemiology: An Introduction, Oxford Univ Press"
- # Gage TB (2000) Demography. In Stinson S et al. eds, Human Biology: An Evolutionary and Biocultural Perspective. Wiley-Liss, pp. 507-551.
- * Fukuda, Y. Umezaki, M., Nakamura, K. and Takano, T. (2005) Variations in societal characteristics of spatial disease clusters: examples of colon, lung and breast cancer in Japan. International Journal of Health Geographics, 4: 16. (Online Journal: http://www.ij-healthgeographics.com/content/4/1/16)