Link to Research Activity

CURRICULUM VITAE (20160218)

Name: Yuko Ibuki
Date of birth: 18 July 1965
Title: Associate Professor
Affiliation: Laboratory of Radiation Biology, Graduate Division of Nutritional and Environmental Sciences, University of Shizuoka, Japan
Tel & fax: +81-54-264-5799
e-mail: ibuki@u-shizuoka-ken.ac.jp

Professional experience

1990-1991 Research Scientist at Marine Biotechnology Institute Co., Ltd.
1991-2005 Assistant Professor at Institute for Environmental Sciences, University of Shizuoka
2005 Visiting researcher at Faculty of Veterinary Science, University of Sydney, Sydney, Australia
2005-2014 Associate Professor at Institute for Environmental Sciences, University of Shizuoka
2015-present Professor at School of Food and Nutritional Sciences, University of Shizuoka

Membership of academic societies

The Japanese Environmental Mutagen Society (councilor)
The Japanese Society for Photomedicine and Photobiology
The Japanese Biochemical Society
The Japan Radiation Research Society

Research

1 Study of the epigenetic changes induced by environmental factors and establishment of new methods for environmental risk evaluation
2 Study on the relationship between histone modifications and UV-induced DNA damage repair
3 Study on carcinogenic effects of ultraviolet A (UVA)

Publications (2014~2015)

1. Y. Ibuki, T. Toyooka, X Zhao, I. Yoshida. Cigarette sidestream smoke induces

histone H3 phosphorylation via JNK and PI3K/Akt pathways, leading to the expression of proto-oncogenes. *Carcinogenesis* **35**(6):1228-37 (2014).

2. T. Kubota, T. Toyooka, X. Zhao, Y. Ibuki. Phosphorylation of Histone H2AX Generated by Linear Alkylbenzene Sulfonates and its Suppression by UVB Exposure. *Photochem Photobiol.* **90**: 845-852 (2014).

3. X. Zhao, T. Toyooka, Y. Ibuki. Silver ions enhance UVB-induced phosphorylation of histone H2AX. *Environ Mol Mutagen.* **55**: 556-565 (2014).

4. X. Fang, N. Ide, S. Higashi, Y. Kamei, T. Toyooka, Y. Ibuki, K. Kawai, H. Kasai, K. Okamoto, S. Arimoto-Kobayashi, T. Negishi. Somatic cell mutations caused by 365-nm LED-UVA due to DNA double-strand breaks through oxidative damage. *Photochem. Photobiol. Sci.* **13**: 1338-46 (2014).

5. I. Yoshida and Y. Ibuki. Formaldehyde-induced histone H3 phosphorylation via JNK and the expression of proto-oncogenes. *Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis,* **770**, 9-18 (2014).

6. Y. Ibuki, Histone modifications induced by chemicals and photogenotoxicity. *Genes and Environment* 36, 111-117(2014).

7. X. Zhao and Y. Ibuki. Evaluating the toxicity of Ag nanoparticles by detecting phosphorylation of histone H3 in combination with flow cytometry side-scattered light. *Environ. Sci. Technol.* 49, 5003-12 (2015).

8. X. Zhao, T. Toyooka, T. Kubota, G. Yang, Y. Ibuki. γ-H2AX induced by linear alkylbenzene sulfonates is due to deoxyribonuclease-1 translocation to the nucleus via actin disruption. *Mutat Res.* 777, 33-42 (2015).

9. Y. Ibuki, M. Shikata, T. Toyooka. γ-H2AX is a sensitive marker of DNA damage induced by metabolically activated 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone. *Toxicol. in vitro.* 29, 1831-8 (2015).

10. X. Zhao, G. Yang, T. Toyooka, Y. Ibuki. New mechanism of γ-H2AX generation: Surfactant-induced actindisruption causes deoxyribonuclease I translocation to the

nucleusand forms DNA double-strand breaks. *Mutat Res.* 794, 1-7 (2015).

11. Y. Ibuki and T. Toyooka, Evaluation of chemical phototoxicity focusing on phosphorylated histone H2AX. *J. Radiat. Res.* 56, 220-228 (2015).