

## CURRICULUM VITAE

Name: Keiji Wakabayashi

Present Position: Professor  
Food and Environment Research Center  
Graduate Division of Nutritional and Environmental Sciences  
University of Shizuoka

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### Education and Employment:

1971 Shizuoka College of Pharmacy, B. Pharm. Sci.  
1977 Shizuoka College of Pharmacy, Ph. D.  
1979-1985 Research Staff, National Cancer Center Research Institute  
1985-1994 Section Head, Carcinogenesis Division, National Cancer Center  
Research Institute  
1994-1997 Chief, Biochemistry Division, National Cancer Center Research Institute  
1997-2002 Chief, Cancer Prevention Division, National Cancer Center Research  
Institute  
2002-2007 Deputy Director, National Cancer Center Research Institute  
2002- Project Leader, Cancer Prevention Basic Research Project, National  
Cancer Center Research Institute  
2007- Director, National Cancer Center Research Institute  
2011-2014 Professor, Institute for Environmental Sciences, University of Shizuoka  
2014- Professor, Graduate Division of Nutritional and Environmental Sciences,  
University of Shizuoka

### Awards:

Japanese Environmental Mutagen Society Achievement Award, 1985  
Incitement Award of the Japanese Cancer Association, 1986  
Prize of the Princess Takamatsu Cancer Research Fund, 2005  
Japanese Environmental Mutagen Society Award, 2008  
Prince Hitachi Prize for Comparative Oncology, 2010

### Editorial Boards:

Cancer Science  
Mutation Research  
Cancer Epidemiology Biomarkers and Prevention  
International Journal of Cancer  
Mutation Research

### Societies:

Japanese Association for Cancer Prevention  
Japanese Biochemical Society  
Japanese Cancer Association  
Japanese Environmental Mutagen Society  
American Association for Cancer Research

### Specialty and Present Interests:

Food-derived mutagens and carcinogens, and their modification of DNA.  
Chemoprevention by dietary factors and medicines.

### List of major publications:

- 1) Wakabayashi, K., Ochiai, M., Saito, H., Tsuda, M., Suwa, Y., Nagao, M. and Sugimura, T. Presence of 1-methyl-1,2,3,4-tetrahydro- $\beta$ -carboline-3-carboxylic acid, a precursor of a mutagenic nitroso compound, in soy sauce. Proc. Natl. Acad. Sci. USA, 80: 2912-2916 (1983).
- 2) Wakabayashi, K., Nagao, M., Esumi, H. and Sugimura, T. Food-derived mutagens and carcinogens. Cancer Res. (Suppl.), 52: 2092s-2098s (1992).
- 3) Nukaya, H., Yamashita, J., Tsuji, K., Terao, Y., Ohe, T., Sawanishi, H., Katsuhara, T., Kiyokawa, K., Tezuka, M., Oguri, A., Sugimura, T. and Wakabayashi, K. Isolation and chemical-structural determination of a novel aromatic amine mutagen in water from the Nishitakase river in Kyoto. Chem. Res. Toxicol., 10: 1061-1066 (1997).
- 4) Watanabe, M., Kono, T., Matsushima-Hibiya, Y., Kanazawa, T., Nishisaka, N., Kishimoto, T., Koyama, K., Sugimura, T. and Wakabayashi, K. Molecular cloning of an apoptosis-inducing protein, pierisin, from cabbage butterfly: Possible involvement of ADP-ribosylation in its activity. Proc. Natl. Acad. Sci. U.S.A., 96: 10608-10613 (1999).
- 5) Watanabe, K., Kawamori, T., Nakatsugi, S., Ohta, T., Ohuchida, S., Yamamoto, H., Maruyama, T., Kondo, K., Ushikubi, F., Narumiya, S., Sugimura, T. and Wakabayashi, K. Role of the prostaglandin E receptor subtype EP1 in colon

carcinogenesis. *Cancer Res.*, 59: 5093-5096 (1999).

- 6) Niho, N., Takahashi, M., Kitamura, T., Shoji, Y., Itoh, M., Noda, T., Sugimura, T. and Wakabayashi, K. Concomitant suppression of hyperlipidemia and intestinal polyp formation in Apc-deficient mice by peroxisome proliferator-activated receptor ligands. *Cancer Res.*, 63: 6090-6095 (2003).
- 7) Nakano, T., Matsushima-Hibiya, Y., Yamamoto, M., Enomoto, S., Matsumoto, Y., Totsuka, Y., Watanabe, M., Sugimura, T. and Wakabayashi, K. Purification and molecular cloning of a DNA ADP-ribosylating protein, CARP-1, from the edible clam *Meretrix lamarckii*. *Proc. Natl. Acad. Sci. USA*, 103: 13652-13657 (2006).
- 8) Totsuka, Y., Higuchi, T., Imai, T., Nishikawa, A., Nohmi, T., Kato, T., Masuda, S., Kinae, N., Hiyoshi, K., Ogo, S., Kawanishi, M., Yagi, T., Ichinose, T., Fukumori, N., Watanabe, M., Sugimura, T. and Wakabayashi, K. Genotoxicity of nano/microparticles in in vitro micronuclei, in vivo comet and mutation assay systems. *Part. Fibre. Toxicol.*, 6: 23 (2009).
- 9) Mutoh, M., Teraoka, N., Takasu, S., Takahashi, M., Onuma, K., Yamamoto, M., Kubota, N., Iseki, T., Kadowaki, T., Sugimura, T., Wakabayashi, K. Loss of adiponectin promotes intestinal carcinogenesis in Min and wild-type mice. *Gastroenterology*, 140:2000-2008 (2011).
- 10) Ishikawa, H., Mutoh, M., Suzuki, S., Tokudome, S., Saida, Y., Abe, T., Okamura, S., Tajika, M., Joh, T., Tanaka, S., Kudo, S., Matsuda, T., Imuro, M., Yukawa, T., Takayama, T., Sato, Y., Lee, K., Kitamura, S., Mizuno, M., Sano, Y., Gondo, N., Sugimoto, K., Kusunoki, M., Goto, C., Matsuura, N., Sakai, T., Wakabayashi, K. The preventive effects of low-dose enteric-coated aspirin tablets on the development of colorectal tumors in Asian patients (Randomized Trial). *Gut*, 63:1755-1759 (2014).