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PRESENT ADDRESS

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EDUCATION

1996-2001 Ph.D., Bioscience, Graduate School of Biological Science, Nara Institute of Science and Technology, Nara, Japan.
1981-1985 B.Sc., Biological Science, Department of Applied Biological Science, Chemistry, Faculty of Science and Technology, Tokyo University of Science.

POSTDOCTORAL TRAINING

2005 - present Post-Doctoral Fellow, The Ohio State University, Columbus, OH.
2003 - 2005 Post-Doctoral Researcher, Tokyo University of Science, Tokyo, Japan.
2003 Lecturer of the Venture Business Laboratory, Yokohama National University, Yokohama, Japan.
2001 - 2003 Technology Fellowship of NEDO (New Energy and Industrial Technology Development Organization), Yokohama National University, Yokohama, Japan.

HONORS AND AWARDS

2003 Kato Memorial Bioscience Grant for International Research Fellowship
2001 - 2003 Technology Fellowship of NEDO

PEER REVIEWED PUBLICATIONS

- Aoki, S., Morohashi, K., Sunoki, T., Kuramochi, K., Kobayashi, S., and Sugawara, F. (2007) Screening of paclitaxel-binding molecules from a library of random peptides displayed on T7 phage particles using paclitaxel-photoimmobilized resin. *Bioconjugate Chem.* **18**: 1981-1986.
- Morohashi, K*, Zhao, M*, Yang, M* (co-first author), Nguyen, B., Read, B., Lloyd, A., Lamb, R., and Grotewold, E. (2007). Participation of the *Arabidopsis* basic helix-loop-helix factor GL3 in trichome initiation regulatory events. *Plant Physiol.* **145**: 736-746.
- Hernandez*, J. M., Feller*, A., Morohashi, K* (co-first author), Frame, K., and Grotewold, E. (2007). The basic helix-loop-helix domain of maize R links transcriptional regulation and histone modifications by recruitment of an EMSY-related factor. *Proc. Natl. Acad. Sci. USA.* **104**: 17222-17227.
- Asada, M., Bayarmaa, G.-A., Morohashi, K., and Hiratsuka, K. (2007). Expression and subcellular localization of pre-rRNA processing factor homologues in higher plants. *Plant Biotechnol.* **24**: 301-306.

Saotome, A., Kimura, S., Mori, Y., Uchiyama, Y., Morohashi, K., and Sakaguchi, K. (2006). Characterization of four RecQ homologues from rice (*Oryza sativa* L. cv. Nipponbare). *Biochem. Biophys. Res. Commun.* **345**: 1283-1291.

Morohashi, K.*, Arai, T* (co-first author), Saito, S., Watanabe, M., Sakaguchi, K., and Sugawara, F. (2006). A high-throughput phage display screening method using a combination of real-time PCR and affinity chromatography. *Comb. Chem. High Throughput Screen.* **9**: 55-61.

Takakusagi, Y., Ohta, K., Kuramochi, K., Morohashi, K., Kobayashi, S., Sakaguchi, K., and Sugawara, F. (2005). Synthesis of a biotinylated camptothecin derivative and determination of the binding sequence by T7 phage display technology. *Bioorg. Med. Chem. Lett.* **15**: 4846-4849.

Morohashi, K., Yoshino, A., Yoshimori, A., Saito, S., Tanuma, S., Sakaguchi, K., and Sugawara, F. (2005). Identification of a drug target motif: an anti-tumor drug NK109 interacts with a PNxxxxP. *Biochem. Pharm.* **70**: 37-46.

Morohashi, K., Minami, M., Takase, H., Hotta, Y., and Hiratsuka, K. (2003). Isolation and characterization of a novel GRAS gene that regulates meiosis-associated gene expression. *J. Biol. Chem.* **278**: 20865-20873.

Bayarmaa, G.-A., Morohashi, K., Takase, H., and Hiratsuka, K. (2003). Identification of novel microsporogenesis-associated genes encoding proteins with a nuclear localization signal. *Plant Biotechnol.* **20**: 137-143.

Morohashi, K., Takase, H., Hotta, Y., and Hiratsuka, K. (2000). Large-scale sequencing of meiosis-associated genes from a cDNA library of lily microsporocytes. *Plant Biotechnol.* **17**: 131-135.

Mizushina, Y., Yagi, H., Tanaka, N., Kurosawa, T., Seto, H., Katsumi, K., Onoue, M., Ishida, H., Iseki, A., Nara, T., Morohashi, K., Horie, T., Onomura, Y., Narusawa, M., Aoyagi, N., Takami, K., Yamaoka, M., Inoue, Y., Matsukage, A., Yoshida, S., and Sakaguchi, K. (1996). Screening of inhibitor of eukaryotic DNA polymerases produced by microorganisms. *J. Antibiot. (Tokyo)*. **49**: 491-492.

INVITED PUBLICATIONS, BOOK CHAPTERS AND REVIEWS

Morohashi, K., Xie, Z., and Grotewold, E. (2008) Gene-specific and genome-wide ChIP approaches to study plant transcriptional networks. In *Plant Systems Biology*. Belostotsky, D. (ed) Humana Press, NJ. *In Press*.

PATENTS AND INVENTIONS

CAP-INDEPENDENT RNA TRANSLATION EFFICIENCY CONTROLLER AND UTILIZATION OF THE SAME. Publication Number: WO/2006/019194, International Application No.: PCT/JP2005/015589. Publication Date: 23.02.2006.

TEACHING ACTIVITIES

1998-1999	Teaching assistant: NAIST, Japan
1999-2000	Teaching assistant: NASIT, Japan
2000	Research assistant: NASIT, Japan