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EDUCATION

- ◆ **2003 Ph.D.**, Molecular Biosciences, University of Hawaii at Manoa, USA.
- ◆ **1997 Ph.D.**, Forest Genetics and Breeding, Beijing Forestry University, China.
- ◆ **1990 M.S.**, Forest Genetics and Breeding, Henan Agricultural University, China.
- ◆ **1985 B.S.**, Forest Science, Henan Agricultural University, China.

EXPERIENCE

- ◆ **2006 – Present, Research Associate**, Department of Biology, West Virginia University, USA.
- ◆ **2003 – 2006 Researcher**, Department of Plant and Environmental Protection Sciences, University of Hawaii at Manoa, USA.
- ◆ **1999 – 2003 Research Assistant**, Department of Molecular Biosciences and Bioengineering, University of Hawaii at Manoa, USA.
- ◆ **1997 – 1999 Associate Professor**, Institute of Forest Research, Chinese Academy of Forest, China.
- ◆ **1994 – 1997 Research Assistant**, College of Forest Resources, Beijing Forestry University, China.
- ◆ **1990 – 1994 Instructor**, Department of Forest Sciences, Henan agricultural University, China.
- ◆ **1985 – 1990 Teaching Assistant**, Department of Forest Sciences, Henan Agricultural University, China.
- ◆ **1980 - 1985 Undergraduate**, Department of Forest Sciences, Henan Agricultural University, China.

Abstracts and Posters

- ◆ **H. Ma**, P. H. Moore, Z. Liu, M. S. Kim, M. M.M. Fitch, T. Sekioka, A. H. Paterson, R. Ming. 2003. Preliminary molecular characterization of the sex determination locus in papaya. *International Plant & Animal Genome XI*. San Diego, CA.
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- ◆ Z. Liu, P. H. Moore, **H. Ma**, Q. Yu, J. I. Stiles, M. M. M. Fitch, A. H. Paterson, and R. Ming. 2002. Chromosome walking toward the sex determination gene in papaya. *International Plant & Animal Genome X*. San Diego, CA.
- ◆ **H. Ma**, P. H. Moore, J. I. Stiles, M. M. M. Fitch, A. H. Paterson and R. Ming. 2001. Towards map-based cloning of a sex determination gene in papaya. *International Plant & Animal Genome IX*. San Diego, CA.

PUBLICATIONS

- ◆ Z. Liu, P. H. Moore, **H. Ma**, C. M. Ackerman, M. Ragiba, Q. Yu, H. M. Pearl, M. S. Kim, J. W. Charlton, J. I. Stiles, F. T. Zee, A. H. Paterson and Ray Ming. 2004. A primitive Y chromosome in papaya marks incipient sex chromosome evolution. *Nature*. 427: 348-352.
- ◆ **H. Ma**, P. H. Moore, Z. Liu, M. S. Kim, Q. Yu, M. M. Fitch, T. Sekioka, A. H. Paterson and Ray Ming. 2004. High-density linkage mapping revealed suppression of recombination at the sex determination locus in papaya. *Genetics*. 166: 419-436.

- ◆ **H. Ma**, D. Zhang and R. Li. 2003. The prediction methodologies of genetic values with paulownia trees. *Scientia Silvae Sinicae*. 37: 283-290.
- ◆ J. C. Deputy, R. Ming, **H. Ma**, Z. Liu, M. M. M. Fitch, R. Manshardt, and J. Stiles. 2002. Molecular markers for sex determination in papaya (*Carica papaua* L.). *Theor. Appl. Genet.* 106: 107-111.
- ◆ **H. Ma**, D. Zhang, R. Li and H. Deng, 2001. RFLP analysis on paulownia species. *Bulletin of Botanical Research*. 21: 136 – 139.
- ◆ R. Ming, P. H. Moore, F. Zee, C. A. Abbey, **H. Ma** and A. H. Paterson. 2001. Construction and characterization of a papaya BAC library as a foundation for molecular dissection of a tree-fruit genome. *Theor. Appl. Genet.* 102: 892-899.
- ◆ X. Wang, **H. Ma**, J. Wang, Y. Wang, Z. Wu and D. Yao. 2000. Studies on a complete set of larch hybrid mass propagation. *Forest Research*. 13 (5): 469-476.
- ◆ **H. Ma**, J. Liu, T. Liu, X. Zhao and J. Fu. 1999. The efficiency of three experimental designs for forest tree breeding. *Journal of Beijing Forestry University*. 21(5): 11-15.
- ◆ **H. Ma**, P. Li and X. Shen. 1998. Study on the early prediction of breeding value for *Paulownia tomentosa*. *Forest Research*. 11 (2): 179-185.
- ◆ **H. Ma**, R. Li, P. Li, J. Tian and X. Liu. 1996. Multi-level interspecific variations and the analysis of selection effect on *Paulownia fortunei*. *Acta Agriculturae Universitatis Henanensis*. 30(1): 1-8.
- ◆ **H. Ma**, R. Li. 1996. Best linear unbiased prediction of genetic value in forest tree Breeding. *Journal of Beijing Forestry University*. 18(4): 69-76.
- ◆ **H. Ma**. 1995. Forest Tree Improvement. In: T. Zhao, S. Li et al, eds. Modern Forest Technique. Zhengzhou: *Huang He Water Conservancy Publishing House*. 28-63.
- ◆ **H. Ma** and R. Li. 1994. Study on the character Stability of *Paulownia imperial* Clones. *Acta Agriculturae Universitatis Henanensis*. 28(Monograph on Paulownia): 14-19.
- ◆ **H. Ma**, S. Cheng and G. Ru. 1994. Canonical correlation analysis on morphological characters of *Paulownia fortunei*. *Acta Agriculturae Universitatis Henanensis*. 28 (Monograph on Paulownia): 44-49.
- ◆ **H. Ma**, R. Li and J. Zhu. 1994. Analysis on the combining ability and hybrid selection effect of *Paulownia tomentosa* plus trees. *Acta Agriculturae Universitatis Henanensis*. 28 (Monograph on Paulownia): 56-60.
- ◆ **H. Ma**. 1994. Heterosis of paulownia in seedling stage. *Acta Agriculturae Universitatis Henanensis*. 28 (Monograph on Paulownia): 61-66.
- ◆ **H. Ma**, J. Liu, L. Dong, T. Chen, X. Zhao, J. Yan and X. Zhang. 1993. The selection effect of economically important characteristics of *Populus tomentosa* clones. *Acta Agriculturae Universitatis Henanensis*. 27 (Suppl.): 48-54.