

BAILIAN LI, Ph. D.

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Dr. Bailian Li is the Sr. Vice Provost for Global Engagement at NC State University. As the Chief International Officer for the University, he provides leadership for the University's overall mission of global engagement in research, education, and economic development. He reports to the Provost, and works closely with other senior vice Provost and Deans, faculty and staff to promote global perspectives into all functions of teaching, research, extension and engagement and to strengthen NC State's international presence in an ever-changing global society. He has administrative oversight for the Office of Global Engagement, the umbrella organization with nine units that provide NC State University faculty, staff, students and communities with the international knowledge, cultural understanding, skills and experience they need to succeed in the global economy. The Office of Global Engagement, supplies resources and expertise, and collaborates with international partners to create research, scholarship and economic development that address global challenges. Under his leadership, NC State has made significant progress for campus internationalization and won the Senator Paul Simon Award in 2014 for outstanding and innovative campus internationalization. He is a professor of Forestry & Environmental Resources and previously served in various administrative positions at University of Minnesota and NC State University. His research projects involved quantitative genetics, forest genetics, biotechnology, genomics and tree improvement, and many of which have significant international dimensions and collaborations with scientists in different countries. He has extensive experience in developing effective international partnerships for student mobility, faculty research and joint academic exchanges. He has been an active leader and served in various leadership positions in international education communities, research and academic societies and journal editorial boards. He has extensive living and working experience in foreign countries immersed in multiple cultures and societies.

LEADERSHIP FOR INTERNATIONAL ENGAGEMENT

International Education Associations and Consortiums:

- Chair of the Executive Committee, University Global Partnership Network (UGPN), 2011-2015
- Member of the Steering Committee, Academic Consortium 21 (AC21) with 20 member of global universities, 2006-present

- Executive Committee, International Commission, Association of Land-grant and Public University (APLU), 2010-2012
- Member of Association of International Education Administrators (AIEA)
- Member of NAFSA, Association of International Educators
- Session chairs and presenters for UGPN, AC21, APLU, AIEA, NAFSA, Going Global (British Council), APAIE (Asian Pacific Association of International Educators)

Vice Provost for Global Engagement:

- Lead the development and implementation of the strategic vision and plan for university's global engagement and international programs to strengthen NC State's international presence in an ever-changing global society;
- Provide leadership and administration for all international units, centers and programs encompassed by the Office of International Affairs to promote global perspectives in teaching, research, and extension/ engagement;
- Develop university-wide international programs in cooperation with college deans and leaders of other university units to promote and establish strategic partnerships and global initiatives;
- Lead the university diplomacy for strategic initiatives, manage collaborative and exchange agreements, and facilitate internal and external media coverage of the university's international activities and involvement;
- Manage budget for all international units and supporting services for international students and visiting scholars, undergraduate and graduate study abroad, development of joint faculty research projects with international partners, and special training programs.

Leadership in Academic Communities:

- Chair, Division 2 of Genetics and Physiology, International Union of Forest Research Organizations (IUFRO), 2005-2010.
- Chair, the Conifer Breeding and Genetic Resources, Division 2 of IUFRO, 2000-2005.
- Associate Editor, Forest Science (USA), 2003-2008.
- Associate Editor, Canadian Journal of Forest Research (Canada), 2003-2006.
- Editorial Board, Annals of Forest Science (France), 2002-2010.
- Editorial Board, Forest Science and Practice, 2004-present.
- Editorial Board, Scientia Silvae Sinicae, 2005-present.

International Academic Experience in Teaching and Research:

- Extensive experience with international academic communities, experience in teaching, research and collaboration with international universities/ institutions, and living and working in foreign countries immersed in multiple cultures and societies.
- Experience in developing and leading Study Abroad programs and experience as an international student with valuable cross-cultural experience and insights on challenges and best ways to serve international students.
- Visiting and Adjunct Professor, Swedish University of Agricultural Sciences,

- Sweden, 2002-2008.
- Technical advisor and adjunct faculty, University of Concepción, Chile, Short courses and research collaborations, 2004-Present.
- Visiting Professor and Ph.D. examiner, University of Helsinki, Finland, 1999.
- External examiner of Ph.D. programs, University of Queensland, Australia, 2000.
- Technical advisor for program review, Queensland Forestry Research Institute, Australia, 2001.

PROFESSIONAL EXPERIENCE

- 2006 – Present: Vice Provost for Global Engagement, North Carolina State University, Raleigh, North Carolina.
- 2004 – 2006: Co-Director, NC State Tree Improvement Program, North Carolina State University.
- 2004 – Present: Professor, Department of Forestry and Environmental Resources, North Carolina State University.
- 1995 – 2004: Assistant-Associate Professor, Department of Forestry, North Carolina State University, Raleigh, North Carolina.
- 1990 – 1995: Co-Director, the Aspen/Larch Genetics Program, Department of Forest Resources, University of Minnesota
- 1989 – 1990: Post-Doctoral Research Scientist, Southern Forest Research, Weyerhaeuser Company.
- 1983 – 1989: Graduate Research Assistant, Department of Forestry, North Carolina State University, Raleigh, NC.

EDUCATION

- Ph.D. 1989 North Carolina State University, Raleigh, North Carolina
 M.S. 1986 North Carolina State University, Raleigh, North Carolina
 B. S. 1982 Beijing Forestry University, Beijing, China

TEACHING AND RESEARCH CONTRIBUTIONS

Teaching Experience – taught various undergraduate and graduate courses in forest genetics, tree improvement techniques, and quantitative genetic methods; supervised over 25 graduate students and eight post-doc scientists.

Research Interests - As a professor in the Department of Forestry and Environmental Resources, main research has focused on forest genetics, biotechnology, genomics and tree improvement. Some of these research projects have significant international dimensions and collaborations with scientists in different countries.

Research Funding - Major research funds are from industry supports, competitive grants from DOE, USDA, NSF, other governmental agencies and foundations. As a PI or co-PI, over 20 research grants with a total of \$7,542,000 have been obtained while at NC State University. These research projects involved quantitative genetics, molecular markers and biotechnology, tree breeding, physiology, and wood and fiber quality.

PUBLICATIONS (Selected Journal Articles)

Xie, J., J. Tian, Q. Du, J. Chen, Y. Li, X. Yang, B. Li, D. Zhang (2016) Association genetics and transcriptome analysis reveal a gibberellin-responsive pathway involved in regulating photosynthesis. *Journal of Experimental Botany*, 67(11), 3325–3338.

Du, Q. Z., Chenrui Gong, Qingshi Wang, Daling Zhou, Haijiao Yang, Wei Pan, Bailian Li & Deqiang Zhang. (2016) Genetic architecture of growth traits in *Populus* revealed by integrated quantitative trait locus (QTL) analysis and association studies. *New Phytologist*, 209(3), 1067–1082.

Du, Q J. Tian, X. Yang, W. Pan, B. Xu, B. Li, P. Ingvarsson, D. Zhang (2015) Identification of additive, dominant, and epistatic variation conferred by key genes in cellulose biosynthesis pathway in *Populus tomentosa*. *DNA Research*, 22(1), 53–67.

Zapata-Valenzuela, Jaime A., Funda Ogut, Angela Kegley, Patrick Cumbie, Fikret Isik, Bailian Li, & Steven E. McKeand (2015) Seedling Evaluation of Atlantic Coastal and Piedmont Sources of *Pinus taeda* L. and Their Hybrids for Cold Hardiness. *Forest Science* 02/2015; 61(1). DOI:10.5849/forsci.12-610.

Yang, X. H., X G Li · B L Li & D Q Zhang. (2014). Genome-wide transcriptional profiling reveals molecular signatures of secondary xylem differentiation in *Populus tomentosa*. *Genetics and molecular research: GMR* 11/2014; 13(4):9489-9504

Xi, Xiaojun, Liqin Guo, Wenting Xu, Jinfeng Zhang, & Bailian Li (2014). Megasporogenesis, megagametogenesis, and induction of 2n eggs with colchicine in poplar section Aigeiros. *Scandinavian Journal of Forest Research* 08/2014; 29(6):527-536.

Wei, Zunzheng, Guanyu Zhang, Qingzhang Du, Jinfeng Zhang, Bailian Li & Deqiang Zhang (2014). Association mapping for morphological and physiological traits in *Populus simonii*. *BMC Genetics* 06/2014; 15(Suppl 1):S3. DOI:10.1186/1471-2156-15-S1-S3

Du, Q.Z., Baohua Xu, Chenrui Gong, Xiaohui Yang, Wei Pan, Jiaying Tian, Bailian Li & Deqiang Zhang (2014) Variation in growth, leaf, and wood property traits of Chinese white poplar (*Populus tomentosa*), a major industrial tree species in Northern China. *Canadian Journal of Forest Research* 04/2014; 44(4):326-339.

Tian, Jiaying, Qingzhang Du, Bailian Li, & Deqiang Zhang (2014). Single-nucleotide polymorphisms in the 5' UTR of UDP-glucose dehydrogenase (PtUGDH) associate with wood properties in *Populus tomentosa*. *Tree Genetics & Genomes* 04/2014; 10(2). DOI:10.1007/s11295-013-0689-6

Yang, Xiaohui, Xinguo Li, Bailian Li & Deqiang Zhang (2014). Identification of Genes Differentially Expressed in Shoot Apical Meristems and in Mature Xylem of *Populus tomentosa*. *Plant Molecular Biology Reporter* 04/2014; 32(2). DOI:10.1007/s11105-013-0660-6

Du, Q. Z., Baohua Xu, Wei Pan, Chenrui Gong, Qingshi Wang, Jiaying Tian, Bailian Li & Deqiang Zhang (2013). Allelic Variation in a Cellulose Synthase Gene (*PtoCesA4*) Associated with Growth and Wood Properties in *Populus tomentosa*. *G3-Genes Genomes Genetics* 09/2013; 3(11). DOI:10.1534/g3.113.007724.

Du, Q. Z., Wei Pan, Jiaying Tian, Bailian Li & Deqiang Zhang (2013). The UDP-Glucuronate Decarboxylase Gene Family in *Populus*: Structure, Expression, and Association Genetics. *PLoS ONE* 04/2013; 8(4):e60880.

Du, Q. Z., Pan, W., Xu, B. H., Li, B. L., & Zhang, D. Q. (2013). Polymorphic simple sequence repeat (SSR) loci within cellulose synthase (PtoCesA) genes are associated with growth and wood properties in *Populus tomentosa*. *New Phytologist*, 197(3), 763-776.

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Xi, X. J., Jiang, X. B., Li, D., Guo, L. Q., Zhang, J. F., Wei, Z. Z., & Li, B. L. (2011). Induction of 2n pollen by colchicine in *Populus X popularis* and its triploids breeding. *Silvae Genetica*, 60(3-4), 155-160.

Cumbie, W. P., Isik, F., Li, B. L., & Goldfarb, B. (2011). Effects of propagule type on genetic parameters of wood density and growth in a loblolly pine progeny test at ages 10 and 11 years. *Tree Genetics & Genomes*, 7(6), 1147-1158.

Zhang, D. Q., Yang, X. H., Zhang, Z. Y., & Li, B. L. (2010). Expression and nucleotide diversity of the poplar COBL gene. *Tree Genetics & Genomes*, 6(2), 331-344.

Aspinwall, M. J., Li, B. L., McKeand, S. E., Isik, F., & Gumpertz, M. L. (2010). Prediction of whole-stem alpha-cellulose yield, lignin content, and wood density in juvenile and mature loblolly pine. *Southern Journal of Applied Forestry*, 34(2), 84-90.

Eckard, J. T., Isik, F., Bullock, B., Li, B. L., & Gumpertz, M. (2010). Selection efficiency for solid wood traits in *Pinus taeda* using time-of-flight acoustic and micro-drill resistance methods. *Forest Science*, 56(3), 233-241.

Zhang, J. F., Wei, Z. Z., Li, D., & Li, B. L. (2009). Using SSR markers to study the mechanism of 2n pollen formation in *Populus x euramericana* (Dode) Guinier and *P. x popularis*. *Annals of Forest Science*, 66(5).

Isik F., H. V. Amerson, R. W. Whetten, S. A. Garcia, B. Li, and S. E. McKeand. 2008. Resistance Assessments of Elite Loblolly Pine Families to Fusiform Rust Inocula in Greenhouse Testing. *Canadian J. Forest Research* 38:2687-2696.

Isik, F., M. Gumpertz, B. Li, B. Goldfarb, and X. Sun. 2008. Analysis of cellulose microfibril angle using a linear mixed model in *Pinus taeda* clones. *Canadian J. Forest Research*. 38:1676-1689.

Isik, F., B. Li, B. Goldfarb, S.E. McKeand. 2008. Prediction of wood density breeding values of *Pinus taeda* elite parents from unbalanced data: A method for adjustment of site and age effects using common checklots. *Annals of Forest Science*. 65: 406-413.

McKeand, S.E., B. Li, J.E. Grissom, F. Isik, and K.J.S. Jayawickrama. 2008. Genetic parameter estimates for growth traits from diallel tests of loblolly pine throughout the southeastern United States. *Silvae Genetica* 57(3):101-110.

Li, H., S. Ghosh, H. Amerson and B. Li. 2006. Major gene detection for fusiform rust resistance using Bayesian complex segregation analysis in loblolly pine. *Theor. and Appl. Genetics* 113:921-929.

Sykes, R., B. Li, F. Isik, J. Kadala, H.M. Chang. 2006. Genetic variation and genotype by environment interaction of juvenile wood properties in *Pinus taeda* L. *Annals of Forest Science* 63:897-904.

Hu, X. S., B. Li. 2006. Additive genetic variation and the distribution of QTN effects among

sites. *Journal of Theoretical Biology* 243:76-85.

Alizoti, P., B. Li, and S.E. McKeand. 2006. Early evaluation of intra- and inter- provenance hybrids of loblolly pine for planting in Piedmont regions of the Southern U.S. *Forest Science* 52:557-567.

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Yu, Q., B. Li, C.D. Nelsen, S.E. McKeand, V.B. Batista and T.J. Mullin. 2006. Association of the cad-n1 allele with increased stem growth and wood density in full-sib families of loblolly pine. *Tree Genetics & Genomics* 2:98-108.

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Jansson, G. and B. Li. 2004. Genetic gains of full-sib families from disconnected diallels in loblolly pine. *Silvae Genetica* 53(2):60-64.

Isik, F., B. Li, J. Frampton, and B. Goldfarb. 2004. Efficiency of seedlings and rooted cuttings for

testing and selection in *Pinus taeda*. *For. Sci.* 50:44-53.

Isik, F., B. Li, J. Frampton, and B. Goldfarb. 2003. Efficiency of seedlings and rooted cuttings for testing and selection in *Pinus taeda*. *For. Sci.* 50:44-53.

Zhang, D., Z. Zhang, K. Yang and B. Li. 2003. Genetic mapping in (*Populus tomentosa* × *P. bolleana*) and *P. tomentosa* Carr. using AFLP markers. *Theor. and Appl. Genetics* 108:657-662.

Sykes, R., F. Isik, B. Li, J. Kadla, and H-m. Chang. 2003. Genetic variation of juvenile wood properties in a loblolly pine progeny test. *TAPPI* 86(12): 3-8.

Xiang, B., B. Li, and F. Isik. 2003. Time trend of genetic parameter estimates in growth traits of *Pinus taeda* L. *Silv. Genet.* 52:114-121.

Jansson, G., B. Li, and K. Hannrup. 2003. Time trends in genetic parameters for height and optimal age for parental selection in Scots pine. *Forest Science* 49:696-705.

Xiang, B. and B. Li. 2003. Best Linear Unbiased Prediction of Clonal Breeding Values and Genetic Values from Full-sib Mating Designs. *Can. J. For. Res.* 33:2036-2043.

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Hu, X.S., W. Zeng and B Li. 2003 Impacts of one-way gene flow on genetic variance components in a natural population. *Silvae Genetica* 51:18-24.

Xiang, B., B. Li, and S.E. McKeand. 2003. Genetic gain and selection efficiency of loblolly pine in three geographic regions. *For. Sci.* 49: 49:192-208.

Isik, F., B. Li, and J. Frampton. 2003. Additive, dominance and epistatic genetic variance estimates from a replicated clonal test of loblolly pine. *For. Sci.* 49:77-88.

Hu, X.S. and B. Li. 2003. On migration load of seeds and pollen grains in a local population. *Heredity* 90:162-168.

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Hu, X.S. and B Li. 2002 Linking the evolutionary qualitative genetics to conservation of genetic resources in natural forest populations. *Silvae Genetica* 51:20-31.

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- Xiang, B. and B. Li. 2001. A new mixed analytical method for genetic analysis of diallel data. *Canadian J. For. Research* 31: 1-8.
- Wu, R. and B. Li. 2000. A quantitative genetic model for analyzing species differences in outcrossing species. *Biometrics* 56(4):325-335
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- McKeand, E. S., B. Li and H. V. Amerson. 1999. Genetic variation in fusiform rust resistance in loblolly pine across a wide geographic range. *Silvae Genetica* 48(5):255-260
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- Li, B. and R. Wu. 1997. Heterosis and genotype x environment interaction in juvenile aspen: The implications for tree breeding. *Canadian Journal of Forest Research* 27: 1525-1537.
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