**Curriculum Vitae**

**Yongzhen Pang**Plant Biology Division

The Samuel Roberts Noble Foundation
2510 Sam Noble Parkway
Ardmore, OK, 73401 USA

Phone: 580-224-6139
Fax: 580-224-6692
E-mail: ypang@noble.org

**Education and Professional Research Experience**

* 2005.7-present, **Postdoctoral Fellow**, Plant Secondary Metabolism-proanthocyanidin biosynthesis and bioengineering, Plant Biology Division, the Samuel Roberts Noble Foundation, Ardmore, OK, USA;
* 2002.9-2005.6, **Ph.D**, Genetics, Plant molecular genetics, State Key Laboratory of Genetic Engineering, Fudan University, Shanghai, China;
* 2003.2-2003.5, Visiting Scholar at Rothamsted Research, UK;
* 1999.9-2002.7, **M.S**., Botany, Plant biochemistry and bioengineering, School of Life Sciences, Southwest University (Formerly Southwest China Normal University), Chongqing, China;
* 2000.9-2002.4, Visiting Undergraduate Student, Plant Molecular Genetics, State Key Laboratory of Plant Genetic Engineering at Fudan University, Shanghai, China;
* 1995.9-1999.7, **B.S**., Biology Education, School of Life Sciences, Southwest University (Formerly Southwest China Normal University), Chongqing, China.

**Selected Awards and Scholarships**

* 2005, Shanghai Outstanding Graduate Award
* 2004, Shanghai Outstanding Graduate Student Award
* 2004, First-class Scholarship for graduate student, Fudan University
* 1999, China National Outstanding Student Award
* 1995-1999, First-class Scholarship, Southwest China Normal University
* 1998, Chongqing Outstanding Undergraduate Award
* 1997, Top Ten Outstanding Student Awards, Southwest China Normal University

**Publications and manuscripts in preparation**

1. **Pang Y.,** Zhao J. and Dixon R.A. (2010). The involvement of epicatechin 3’-*O*-glucoside in proanthocyanidin biosynthesis (In preparation).
2. **Pang Y**., Abeysinghe S.B., Mudith M., He J., and Dixon R.A. (2010). EST analysis and functional characterization of proanthocyanidin biosynthetic pathway genes from the *Exobasidium vexans* infected *Camellia sinensis* (In preparation).
3. **Pang Y**., Wenger J.P., Saathoff K., Peel G.J., Wen J., Huhman D., Allen S.N., Tang Y., Cheng X., Tadege M., Ratet P., Mysore K.S., Sumner L.W., Marks M.D. and Dixon R.A. (2009). A WD40 repeat protein from *Medicago truncatula* is necessary for tissue-specific anthocyanin and proanthocyanidin biosynthesis, but not for trichome development. Plant Physiology, 151, 1114-1129.
4. **Pang Y.**, Peel G.J., Sharma S.B., Tang Y. and Dixon R.A. (2008). A transcript profiling approach reveals an epicatechin-specific glucosyltransferase expressed in the seed coat of *Medicago truncatula.* Proceedings of the National Academy of Sciences USA, 105, 14210-14215.
5. **Pang Y.**, Peel G.J., Wright E., Wang Z., and Dixon R.A.(2007). Early steps in proanthocyanidin biosynthesis in the model legume *Medicago truncatula*. Plant Physiology 145, 601-615.
6. **Pang Y.**, Shen G., Wu W., Bergès T., Cardier H., Sun X. and Tang K. (2006). Molecular cloning, characterization and heterologous expression in *Saccharomyces cerevisiae* of a novel mevalonate disphosphate decarboxylase cDNA from *Ginkgo biloba*. Physiologia Plantarum 127: 19-27.
7. **Pang Y.**, Shen G., Wu W., Liu X., Lin J., Tan F., Sun X. and Tang K. (2005). Characterization and expression of chalcone synthase gene from *Ginkgo biloba*. Plant Science 168(6): 1525-1531.
8. **Pang Y.**, Shen G., Qi H., Tan F., Sun X. and Tang K. (2004). Transgenic tobacco expressing *Zephyranthes candida* agglutinin showed enhanced resistance to aphids. Engineering in Life Sciences (formerly Acta Biotechnologica) 4: 155-159.
9. **Pang Y.**, Yao J., Shen G., Qi H., Tan F., Sun X. and Tang K. (2004). Transgenic tobacco expressing *Lycoris radiata* agglutinin showed enhanced resistance to aphids. Acta Botanica Sinica 46(7): 767-772.
10. **Pang Y.**, Shen G., Liu C., Liu X., Tan F., Sun X. and Tang K. (2004). Molecular cloning and sequence analysis of a novel chalcone synthase gene *from Ginkgo biloba*. DNA Sequence. 15(4): 283-290.
11. **Pang Y.**, Shen G., Liao Z., Yao J., Fei J., Sun X., Tan F. and Tang K. (2003). Molecular cloning and characterization of a novel lectin gene from *Zephyranthes candida*. DNA Sequence 14(3): 163-167.
12. **Pang Y.**, Tan F. and Long Y. (2000). Modification method to purify the flavonoids from *Ginkgo biloba*. Journal of Southwest China Normal University. 25 (1), 70-73 (in Chinese with English abstract).
13. Zhao J., **Pang Y.**and Dixon R. A. (2010) .The mysteries of proanthocyanidin transport and polymerization. Plant Physiology, 153, 437-443 (Review paper)
14. Peel G.J., **Pang Y.,** Modolo L.V. and Dixon R.A. (2008). The LAP1 MYB transcription factor orchestrates anthocyanidin biosynthesis and glycosylation in *Medicago.* Plant Journal 59(1), 136-149.
15. Modolo L.V., **Pang Y.**, Tian L. and Dixon R.A.(2009). Gene discovery and metabolic engineering in the phenylpropanoid pathway. Recent Advances in Polyphenols Research, 1, 113-138 (Review paper).
16. Tian L., **Pang Y.** and Dixon R.A. (2008). Biosynthesis and genetic engineering of proanthocyanidins and (iso)flavonoids. Phytochemistry Reviews 7, 445-465 (Review paper).
17. Shen G., **Pang Y.**, Wu W., Zhao L., Zhao Sun X. and Tang K. (2006). Cloning and characterization of a root-specific expressing gene encoding 3-hydroxy-3-methylglutaryl coenzyme A reductase from *Ginkgo biloba*. Mol Biol Rep 33(2): 117-127.
18. Wu W., **Pang Y.**, Shen G., Lu J., Lin J., Wang J., Sun X. and Tang K. (2006). Molecular cloning, characterization and expression of a novel trehalose-6-phosphate synthase homologue from *Ginkgo biloba*. Journal of Biochemistry and Molecular Biology 39(2): 158-166.
19. Shen G., **Pang Y.**, Wu W., Deng Z., Zhao L., Cao Y., Sun X. and Tang, K. (2006). Molecular cloning and characterization and function identification of a novel tissue-specific flavanone 3-hydroxylase cDNA from *Ginkgo biloba*. Bioscience Reports 26(1): 19-29.
20. Shen G., **Pang Y.**, Wu W., Liu X., Zhao L., Tan F., Sun X. and Tang K. (2005) Isolation and characterization of a novel tissue-specific anthocyanidin reductase gene from *Ginkgo biloba*. Journal of Plant Physiology 163(2):224-227.
21. Deng Z., **Pang Y.**, Kong W., Chen Z., Wang X., Liu X., Pi Y., Sun X. and Tang K. (2005). A novel ABA-dependent dehydrin ERD10 gene from *Brassica napus*. DNA Sequence 16(1): 28-35.
22. Shen G., **Pang Y.**, Wu W., Deng Z., Liu F., Lin J., Li Z., Sun X. and Tang K. (2005). Molecular cloning, characterization and expression of a novel *Asr* gene from *Ginkgo biloba*. Plant Physiology and Biochemistry 43(9): 836-843.
23. Chen Z., **Pang Y.**, Liu X., Wang X., Deng Z., Sun X. and Tang K. (2005). Molecular cloning and characterization of a novel mannose-binding lectin cDNA from *Zantedeschia aethiopica*. Biocell 29(2): 187-193.
24. Shen G., **Pang Y.**, Wu W., Miao Z., Qian H., Zhao L., Sun X., Tang K. (2005). Molecular cloning, characterization and expression of a novel defensin gene from *Ginkgo biloba*. Journal of Plant Physiology 162: 1160-1168.
25. Fan Y., **Pang Y.**, Wu W., Yao J., Tang K. and Wu T. (2004). Construction of plant expression vectors containing binary insect resistance gene Cry IA(a)-pta and Cry IA(c)-pta and their expression in transgenic tobaccos. Journal of Shanghai Jiaotong University. 22(1), 1-6 (in Chinese with English abstract).
26. Yao J., **Pang Y.**, Qi H., Wan B., Zhao X., Kong W., Sun X. and Tang K. (2003). Transgenic tobacco expressing *Pinellia ternata* agglutinin conferred enhanced resistance to aphids. Transgenic Research 12(6), 715-722.
27. Shen G., **Pang Y.**, Lin C., Wei C., Qian X., Jiang L., Du X., Li K. and Yang J. (2003). Cloning and Characterization of a novel *Hsp100/Clp* gene (osClpD) from *Oryza sativa*. DNA Sequence 14(4), 285-293.
28. Chai Y., **Pang Y.**, Liao Z., Zhang L., Sun X., Lu Y., Wang S. and Tang K. (2003). Molecular cloning and characterization of a mannose-binding lectin gene from *Crinum asiaticum*. Journal of Plant Physiology 160 (8): 913-920.
29. Tan F., **Pang Y.**, Xiong N. and Deng C. (2000). Introduction, propagation and taxol accumulation in leaves of *Taxus media*. Journal of Southwest China Normal University. 25(4), 448-451 (in Chinese with English abstract).
30. Liu X., Wang X., **Pang Y.**, Liang J., Liu S., Sun X. and Tang K. (2006). Molecular Cloning and Characterization of a Novel WRKY Gene from *Brassica chinensis*. Molecular Biology 40(5), 732-740.
31. Lin J., Zhou X., **Pang Y.**, Gao S., Fei J., Shen G., Wang J., Sun X. and Tang K. (2005). Cloning and characterization of an agglutinin gene from *Arisaema lobatum*. Bioscience Reports 25(5-6):345-62.
32. Song J., Chai Y., **Pang Y.**, Zuo K., Fei J., Liu X., Sun X. and Tang K. (2004). Isolation and characterization of an IAA-responsive gene from *Gossypium barbadense* L. DNA sequence 15(1): 71-76.
33. Zhao C., Lu Z., **Pang Y.** and Tan F. (2003). Semilethal temperature and low temperature adaptability of two Taxus media species. Journal of Chongqing University. 26(6), 86-88 (in Chinese with English abstract).
34. Zhao C., Lu Z., **Pang Y.** and Tan F. (2003). Effect of water stress on the photosynthesis characterizations of Taxus media. Journal of Southwest China Normal University. 28(1), 126-129 (in Chinese with English abstract).
35. Wu A., Sun X., **Pang Y.** and Tang K. (2002). Homozygous transgenic rice lines expressing GNA with enhanced resistance to rice sap-sucking pest *Laodelphax striatellus*. Plant breeding 121, 93-95.
36. [Cui L](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22CUI+Li-jie%22++DBID%3aWF_QK)., [Lu L](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22LU+Li-ya%22++DBID%3aWF_QK)., [Ye J.,](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22YE+Jian%22++DBID%3aWF_QK) [**Pang Y**](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22PANG+Yong-zheng%22++DBID%3aWF_QK)**.**, [Shen G.,](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22SHEN+Guo-an%22++DBID%3aWF_QK) [Zhao L](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22ZHAO+Ling-xia%22++DBID%3aWF_QK). and [Tang K](http://s.wanfangdata.com.cn/paper.aspx?f=detail&q=%e4%bd%9c%e8%80%85%3a%22TANG+Ke-xun%22++DBID%3aWF_QK). (2009). Development of functional lettuce for preventing and curing osteoporosis. [Journal of Shanghai Jiaotong University (Agricultural Science)](http://c.wanfangdata.com.cn/periodical-shnxyxb.aspx) [27(5)](http://c.wanfangdata.com.cn/periodical/shnxyxb/2009-5.aspx) :465-474 (Chinese with English abstract)
37. Liu S., Wang X., Fan Z., **Pang Y.**, Sun X., Wang X. and Tang, K. (2004). Molecular cloning and characterization of a novel cold-regulated gene from *Capsella bursa-pastoris*. DNA sequence 15(4): 262-268.
38. Fei J., Liao Z., Chai Y., **Pang Y.**, Yao J., Sun X. and Tang K. (2003). Molecular cloning and characterization of a novel mannose-binding lectin gene from *Amorphophallus konjac*. Molecular Biology Reports 30(3): 177-183.
39. Kai G., Zheng J., Zhang L., **Pang Y.**, Liao Z., Li Z., Zhao L., Sun X. and Tang K. (2003). Cloning and molecular characterization of a novel mannose-binding lectin gene from *Zephyranthes grandiflora*. DNA Sequence 14(4): 335-338
40. Liu X., Huang B., Lin J., Fei J., Chen Z., **Pang Y.**, Sun X. and Tang K. (2005). A novel pathogenesis-related protein (SsPR10) from *Solanum surattense* with ribonucleolytic and antimicrobial activity is stress- and pathogen- inducible. Journal of Plant Physiology 163, 546-556.
41. Li Z., Zhao L., Kai G., Yu S., Cao Y., **Pang Y.**, Sun X. and Tang, K. (2004). Cloning and expression analysis of a water stress-induced gene from *Brassica oleracea*. Plant physiology and biochemistry. 42(10), 789-794.
42. Wang X., Liu S., Liu X., Chen Z., Liu X., **Pang Y.**, Sun X., and Tang K. (2004). Molecular Cloning and Characterization of a Novel *CBF* Gene from Capsella *bursa-pastoris*. DNA Sequence 15(3), 180-187.
43. Pi Y., Liao Z., Chai Y., Zeng H., Wang P., Gong Y., **Pang Y.**, Sun X. and Tang K. (2006). Molecular cloning and characterization of a novel stem-specific gene from *Camptotheca acuminata*. Journal of Biochemistry and Molecular Biology 39: 68-75.
44. Lu Y., Sun X., Yao J., Chai Y., Zhao X., Zhang L., Song J., **Pang Y.**, Wu W. and Tang K. (2003). Isolation and expression of cold-regulated cDNA from Chinese cabbage (*Brassica pekinensis*). DNA Sequence 14(3): 219-222.

**References**

**Dr. Richard A. Dixon** (postdoc supervisor)

Senior Vice President

Professor and Director

Plant Biology Division

The Samuel Roberts Noble Foundation

2510 Sam Noble Parkway

Ardmore, OK 73401

Tel: 580-224-6601

Fax: 580-224-4758

Email: radixon@noble.org

**Dr. Kexuan Tang** (Ph. D mentor)

Professor of Plant Genetics

Dean, School of Agriculture and Biology

Director, Plant Biotechnology Research Center

Shanghai Jiaotong University, Shanghai 200030, China

Director, Fudan-SJTU-Nottingham Plant Biotechnology R&D Center

Tel: +86-21-64789266

Fax: +86-21-62824073

E-mail: kxtang1@yahoo.com or kxtang1@163.com

**Dr. Stephen Temple** (collaborator)

Director of Biotechnology Department

Forage Genetics International

N5292 South Gills Coulee Rd.

West Salem, WI 54669

Tel: 608-786-2121

Fax: 608-786-2193

Email: STemple@foragegenetics.com