

# CURRICULUM VITAE

QING-LI WU PH. D.

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## RESEARCH INTERESTS

Plant medicine, natural products chemistry, and quality control (HPLC & LC/MS) and standardization of plant medicines.

## EDUCATION

- Ph.D. in natural products chemistry and chemotaxonomy, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China, 1997, Supervisor: Professor Pei-Gen Xiao
- M.S. in pharmacognosy, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China, 1994, Supervisor: Professor Yu-Xiu Feng
- B.S. in pharmacy, Anhui College of Traditional Chinese Medicine, Hefei, China, 1989

## POSTDOCTORAL FELLOWSHIP

- Analytical chemistry, Harvard Medical School, Belmont, Massachusetts, USA, 1999-2001, Advisor: Professor David W. Y. Lee
- Instrumental analysis of natural products, Rutgers University, New Brunswick, New Jersey, USA, 2001-2002, Advisor: Professor James E. Simon, 2001-current

## PROFESSIONAL BACKGROUND

*Assistant Research professor, 2005; Research Assistant, 2002-2004; Postdoctoral Fellow, 2001-2002, Department of Plant Biology and Pathology, Cook College, Rutgers University, New Brunswick, New Jersey, USA*

- Engaged in NIH sponsored Botanical Center for Age-Related Diseases (OD-00-004, Amount: ca. \$8 Millions, Period: 01/01/01-12/31/05). Provided the leadership in botanical authentication and quality control of plant samples used in the Botanical Center, and developed and validated several HPLC, LC/MS and LC/MS/MS methods for determination of polyphenols in various plants materials e.g. kudzu, grape, soy, red clover, green tea, ginkgo, St. John's Wort and areca nut
- Invited as senior author by *J. Chromtgr. B* to contribute an annual review on analytical methods for phytoestrogens regarding my extensive understanding

on the area of phytoestrogen analysis (in plant origins and biological matrices)

- Supervised the research of L.L. Shen, a graduated student (Ph.D.) in Rutgers University, "LC/MS method development for analysis of polyphenolics in *Areca catechu*", 2004-present
- Provide support and training in natural products chemistry and phytochemical analysis and instrumental analysis to undergraduate, graduate students, postdoctoral fellow, visiting scientists and other Rutgers staff
- Participated in educational and outreach programs and national and international training programs
- Involved in the program development including grant generation and procurement of external funds to support the natural products research, development and strengthening of private sector partnerships, lab maintenance, and program website development

*Postdoctoral Fellow, 1999-2001, Bio-organic and Natural products Laboratory, Department of Psychiatry, Mclean Hospital, Harvard Medical School, Belmont, Massachusetts, USA*

- Developed and validated HPLC/UV method for quantification of Puerarin (treatment of alcohol abuse) in human plasma and urine, and identified its metabolites by LC/MS/MS
- Synthesized series of novel 1-phenylbenzazepine analogs for development of anti-stimulation medications
- Isolated and identified anti-tumor natural products, *Alpha*- and *Beta*-boswellic acid and boswellic acid acetate in large scale from traditional plant medicine *Boswellia carterii* Birdw (Olibanum) by DCCC (Droplet Countercurrent Chromatography) and Prep-HPLC
- Developed new DCCC instrument
- Purified Protein Allergens from the crude pollen extracts of *Paspalum notatum* (Bahia grass) using the technology Across-Axis High-Speed Countercurrent Chromatography (HSCC)

*Key Laboratory, Institute of Medicinal Plant Development, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China*

Assistant Professor, 1997-1999

- Collaborated with industrial clients to develop new drugs, prepared new drug application (NDA) submissions to the State Food and Drug Administration (SFDA) to initiate clinical trials, e.g. "second type" generic medicine, Actarit material and capsule (treatment of chronic rheumatoid arthritis) and "second type" Traditional Chinese New Drug, Duanxueliu (*Clinopodium sp.*), total triterpene glycoside material and capsule
- Supervised the research of graduate students, isolated and identified more than 30 bioactive compounds from medicinal plants of *Thalictrum* and *Eriobotrya* using Prep-HPLC, MS, 1D and 2D NMR spectrometry, seven of them are novel.

Ph.D. candidate, 1994-1997

*Dissertation title:* Chemical Investigation on Chinese Medicinal Plants from *Hypericum* and Chemtaxonomic Study on Clusiaceae (s. l.).

- Isolated ca. 60 bioactive natural components from Chinese medicinal plants *Hypericum japonicum* and *Hypericum henry* by column chromatography (silica gel G, silica gel H, polyamide and sephadex LH-20) and preparative TLC. Some of them were found to exert interesting coagulant and anti-HIV activities *in vitro* test
- Determined Forty-four structures by spectroscopic (IR, UV,  $^1\text{H}$  NMR,  $^{13}\text{C}$  NMR, DEPT, NOE,  $^1\text{H}$ - $^1\text{H}$  COSY,  $^{13}\text{C}$ - $^1\text{H}$  COSY, HMQC, HMBC, EI-MS, FAB-MS and CD) and chemical methods, and 12 of them are novel natural products
- Conducted chemical investigation throughout 25 genera (ca. 150 species) and discussed the chemtaxonomic interest of the family Clusiaceae (s. l.)

M. S. Student, 1991-1994

*Thesis title:* Pharmacognostical Study on Traditional Chinese Medicine, Haifenteng

- Extracted and isolated main alkaloids from *Piper puberulum*, three of them are novel, and analyzed lignans and alkaloids in some species of *Piper* by HPLC system
- Elucidated the structures from *Piper puberulum*, by NMR, MS, CD, UV and IR as well as chemical methods
- Conducted taxonomic and field investigations of Traditional Chinese Medicine (*Piper* genus) in 11 provinces in the south of China (June-October, 1992), collection and identification of medicinal plants

### **SKILLS AND TRAINING**

- Skilled in operating laboratory instruments Agilent 1100 Series LC-ESI-MSD, VARIAN Mercury-Series NMR Spectrometer System and HPLC, and in column chromatography, (silica gel, polyamide, RP-18 silica gel and sephadex LH-20), preparative HPLC, etc.
- Special training in spectral interpretation of  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR (including NOE, DEPT, etc.), 2D-NMR (HMQC, COLOC, HMBC, NOESY, etc.), EI-, HR-, FAB-MS, X-RAY as well as UV, IR, CD spectra
- Experience with organic syntheses in design and development of multi-step syntheses to prepare target molecules
- Extensive experience in taxonomy, field investigation and identification of medicinal plants

### **AWARDS AND HONOR**

- Invited Contributing Presentation: 2002 Botanical Center Directors' Meeting, National Institute of Health (NIH), July 8-10, 2002, Bethesda, MD.

- Finalist: Graduated School, Peking Union Medical College and Chinese Academy of Medical Sciences, 1997 Ph.D. Candidate Symposium, Beijing, China.
- State Administration of Traditional Chinese Medicine (SATCM), Awarded Silver Prize for Master's Thesis: *Species Systematization and Quality Evaluation of Common used Traditional Chinese Drugs* (12/1995).

#### **Additional Contributions:**

Provided analytical service and quality control analysis to New-Jersey based companies that have led to their product formulations and reformulations (both for phytopharmaceutical anti-malarial pediatric formula for West Africa; and for herbs and dietary supplements)

#### **AFFLICTION**

- Sino-American Pharmaceutical Professionals Association (SAPA)
- American Chemical Society (ACS)

#### **GRANTS**

##### *Federal Competitive Grants:*

- 2005-2010. Botanical Center and Age-Related Diseases. 2005-2010. Simon, J.E. and Wu, Q.L. et al. **National Institute of Health (NIH), \$6.0 millions.** (competitive renewal for that from January 1, 2001 to December 31, 2005). As the co-PI of Botanical Core and Outreach, I provided the leadership in the botanical authentication using botanical taxonomic, molecular and chemical approaches, and provide technical support and advice on products, plant species, and botanical standardization.
- 2002. Wu, Q.L. and Simon, J.E. et al. Pilot grant of **\$10,000.00 from NIH sponsored Purdue-UAB Botanical Center** for purchasing laboratory facility.
- 2001-2005. Botanical Center and Age-Related Diseases founded by **NIH (OD-00-004, Amount: \$8 million, Period: 01/01/00-12/31/05)**. The Center focused the diverse basic research and educational strengths on characterization the active ingredients in botanical with the emphasis on polyphenolics and determine their efficiency in reducing risk of age-related diseases including osteoporosis, cancer, cardiovascular disease, and neurodegeneration. As a member of Botanical Core, my responsibilities were to provide the leadership in plant identification, plant sample sourcing and processing, and providing quality control and method development for biological ingredients in the plant samples used in the Botanical Center. (Simon, J.E. as co-PI in Rutgers).
- 2005-2007. **NIH-SBIR-Phase II.** Chemistry and Botanical Standardization of Green Tea. (Wu, Q.-L. and J.E. Simon, co-PI's). In concert with the University of Maryland. **\$41,000.**
- Now working on USAID and Foundation grants to support research in anti-malarials (*Artemisia*) and nutritional dietary supplements to improve human nutrition (*moringa*).

*External Industry and/or NGO Grants:*

- 2004. New Jersey Soy Council. Participated to help analysis of soy isoflavones in different soy varieties collected from New Jersey farm, **\$3,500.00**.
- 2004-2005. Sleepy Hollow Farms. USDA-SBIR Phase II. Provided leadership in quality control in goldenseal for alkaloids. **\$25,000**.

## TEACHING

Medicinal Plant.

## PUBLICATION LIST

*Journal Articles:*

1. **Qing-li Wu**, Yong-Hong Yang, Mingfu Wang and James E. Simon. (2005): Determination of proanthocyanidins in areca nuts by high-performance liquid chromatography combined with ultraviolet and mass spectrometric detection. Journal of Food and Agricultural Chemistry, (submitted).
2. Zhongze Ma, **Qing-li Wu**, David Y. W. Lee, Micheal Tracy and Scott E. Lukas. (2005): Determination of puerarin in human plasma by high performance liquid chromatography. Journal of chromatography B, **823**: 108-114.
3. Mingfu Wang, ChungHeon Park, **Qing-li Wu**, and James E. Simon. (2005): Analysis of Artemisin in *Artemisia annua* L. by LC-MS with selected Ion monitoring. Journal of Food and Agricultural Chemistry, **53**: 7010-7013.
4. **Qing-li Wu**, Mingfu Wang and James E. Simon. (2005): Liquid chromatographic/mass spectrometric determination of proanthocyanidins in fresh grape and grape products. Rapid Communications in Mass Spectrometry, **19**: 2062-2068.
5. **Qing-li Wu**, Mingfu Wang and James E. Simon. (2004): Analytical methods to determine phytoestrogenic compounds. Journal of chromatography B, **812**: 325-355 (**invited review as senior author**).
6. **Qing-li Wu**, Mingfu Wang and James E. Simon. (2004): LC/UV/ESI-MS analysis of isoflavones in Edamame and Tofu soybeans. Journal of Agricultural and Food Chemistry, **52**: 2763-2769.
7. **Qing-li Wu**, Mingfu Wang and James E. Simon. (2003): Determination of isoflavones in red clover and related species by high-performance liquid chromatography combined with ultraviolet and mass spectrometric detection. Journal of chromatography A, **1016**: 195-209.
8. Mingfu Wang, Yaakov Tadmor, **Qing-Li Wu**, Chee-Kok Chin, Stephen A. Garrison and James E. Simon (2003). Quantification of protodioscin and rutin in asparagus shoots by LC/MS and HPLC Methods, Journal of Agricultural and Food Chemistry, **51**: 6132-6136.
9. **Qing-li Wu**, Mingfu Wang and James E. Simon. (2003): Determination of Proanthocyanidins in Grape Products by Liquid Chromatography/Mass

- Spectrometric Detection under Low Collision Energy, Analytical Chemistry, **75**: 2440-2444.
10. David E. Zaurov, James E. Simon, Chungheon Park, Wudeneh Letchamo, **Qing-Li Wu**, Ming-Fu Wang, Igor V. Belolipov and Ishenbay Sodobekov. (2002): Medicinal plants from central and western Asia, Korean J. Medicinal Crop Sci. **10**: 277-283.
  11. Shi-chun Yu, **Qing-li Wu**, Li-wei Wang and Pei-gen Xiao. (1999): Flavonoid Glycosides from *Thalictrum przewalskii*. Journal of Asian Natural Products Research, **1**: 301-306.
  12. Shi-chun Yu, **Qing-li Wu**, Li-wei Wang and Pei-gen Xiao. (1999): Constituents from *Thalictrum smithii*. Zhong Cao Yao, **30 (5)**: 321-323.
  13. Shi-chun Yu, **Qing-li Wu**, Li-wei Wang and Pei-gen Xiao. (1999): New Triterpene Glycosides from *Thalictrum smithii*. Chinese Chemical Letters, **10 (6)**: 485-486.
  14. Shi-chun Yu, **Qing-li Wu**, Li-wei Wang and Pei-gen Xiao. (1998): New Flavonoid Glycosides from *Thalictrum przewalskii*. Chinese Chemical Letters, **10 (4)**: 295-296.
  15. **Qing-li Wu**, Sheng-ping Wang, Li-jun Du, Jun-shan Yang and Pei-gen Xiao. Constituents of *Hypericum*, (1998): Phytotherapy Research, **12**, S164-S168.
  16. **Qing-li Wu**, Sheng-ping Wang, Jun-shan Yang and Pei-gen Xiao. Flavonoids from *Hypericum henryi*, (1998): Natural Products Research and Development, **10 (4)**: 15-18.
  17. **Qing-li Wu**, Sheng-ping Wang, Li-jun Du, Jun-shan Yang and Pei-gen Xiao. (1998): xanthones from *Hypericum japonicum* and *H. henryi*. Phytochemistry, **49(5)**: 1395-1402.
  18. **Qing-li Wu**, Sheng-ping Wang, Yong-hong Liao, Li-jun Du, Jun-shan Yang and Pei-gen Xiao. (1998): New Phloroglucinol Glycosides from *Hypericum japonicum*. Chinese Chemical Letters, **9 (5)**: 469-470.
  19. **Qing-li Wu**, Sheng-ping Wang, Li-jun Du, Jun-shan Yang and Pei-gen Xiao. (1998): Chromone Glycosides and Flavonols from *Hypericum japonicum* Thunb. ex Murray. Phytochemistry, **49(5)**, 1417-1420.
  20. **Qing-li Wu**, Yong-hong Liao, Sheng-ping Wang, Li-wei Wang, Yu-xiu Feng, Jun-shan Yang, Pei-gen Xiao and Shao-liang Hong. (1997): New Prenylatedflavonol from *Hypericum japonicum*. Chinese Chemical Letters, **8(4)**: 317-318.
  21. **Qing-li Wu**, Sheng-ping Wang, Guang-zhong Tu, Jun-shan Yang and Yu-xiu Feng. (1997): Alkaloids from *Piper puberulum*. Phytochemistry, **44(4)**: 727-730.
  22. **Qing-li Wu**, Yong-hong Liao, Sheng-ping Wang, Li-wei Wang, Yu-xiu Feng, Jun-shan Yang, Pei-gen Xiao and Shao-liang Hong. (1997): New Chromone Glycosides from *Hypericum japonicum*. Chinese Chemical Letters, **8(1)**: 41-42.
  23. **Qing-li Wu**, Yong-hong Liao, Sheng-ping Wang, Li-wei Wang, Yu-xiu Feng, Jun-shan Yang, Pei-gen Xiao and Shao-liang Hong. (1996): Novel Pyrones from *Hypericum japonicum*. Chinese Chemical Letters, **7(11)**: 1011-1012.

24. **Qing-li Wu**, Sheng-ping Wang, Jun-shan Yang and Yu-xiu Feng. Chemical Study on *Piper* (Piperaceae). (1998): Natural Products Research and Development, (Review). 10(2): 84-89.
25. **Qing-li Wu**, Sheng-ping Wang, Jun-shan Yang and Pei-gen Xiao. (1998): Pharmacological Study on *Hypericum* (Clusiaceae). Zhong Cao Yao, (a review). 29, supplement 135-137.
26. **Qing-li Wu**, Sheng-ping Wang, Yong-hong Liao, Li-wei Wang, Yu-xiu Feng, Jun-shan Yang, Pei-gen Xiao and Shao-liang Hong. (1996): New Constituents from *Hypericum japonicum*. Chinese Chemical Letters, 7(12): 1095-1096.
27. **Qing-li Wu**, Jun-shan Yang and Yu-xiu Feng. (1994): Two New Alkaloids from *Piper puberulum*. Chinese Chemical Letters, 5 (3): 203-206.
28. **Qing-li Wu** and Yu-xiu Feng. (1994): Comparative Study on Constituents of Essential Oil from Traditional Chinese Drugs Haifengteng Attributed to *Piper*. Natural Products Research and Development, 6 (3): 9-16.
29. **Qing-li Wu** and Yu-xiu Feng. Lignans from *Piper* Genus (Piperaceae) and their Bioactivity. 1994. World Notes on Plant Medicine. (Review). 9 (2): 51-56
30. Zhu-hua Wu, Chuan-fu Cheng and **Qing-li Wu**. (1991): Pharmacognostic study of "Xin-Yi" (*Magnolia*) in Anhui. China Journal of Chinese Materia Medica. 16: 13-17.

*Book Chapters:*

31. Mingfu Wang, Yi Jin, **Qing-Li Wu**, James E. Simon and Chi-Tang Ho. Chemistry, Pharmacology and quality control of selected popular oriental herbs in the US market in Asian Functional Foods, CRC Press, 2005, in press.
32. **Qing-Li Wu** and Yu-Xiu Feng, (2002): Haifengteng (*Kiper kadsura*) in Species Systematization and Quality Evaluation of Commonly used Chinese Traditional, Volume IV, People Health Press, Beijing, China.
33. **Qing-Li Wu**, Mingfu Wang, James E. Simon Shi-Chun Yu, Pei-Gen Xiao and Chi-Tang Ho, (2003): Studies on the chemical Constituents of Loquat Leaves (*Eriobotrya japonica*), ACS Symposium Series of Oriental Herbs, Editor by Chi-Tang Ho, Published by ACS. pp. 292-306.
34. Mingfu Wang, **Qing-Li Wu**, Yaakov Tadmor, James E. Simon, Sengmin Sang and Chi-Tang Ho, (2002): *Schisandra chinensis*: Chemistry and Analysis, ACS Symposium Series of Oriental Herbs, Editor by Chi-Tang Ho, Published by ACS. pp. 234-245.

*Presentation on National and International Conferences:*

35. **Qing-Li Wu** and James E. Simon. Development of Valuable Natural Products and Botanicals. Presented at Institute of Medicinal Plant Development, Peking Union Medical College and Chinese Academy of Medical Sciences, Beijing, China. August 24, 2005.

36. James E. Simon, **Qing-Li Wu**, Mingfu Wang and Rodolfo Juliani. Research, Discovery and Application of Natural Products for Health and Medicine. Gordon Conference, NH, July 10, 2005.
37. **Qing-Li Wu**, Yong-Hong Yang, MingFu Wang and James E. Simon. Determination of isoflavones in kudzu by LC/UV/MSD. Presented at the 5<sup>th</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2005.
38. **Qing-Li Wu**, MingFu Wang and James E. Simon. LC/MS Determination of proanthocyanidins in fresh grape and grape products. Presented at the 4<sup>th</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2004.
39. **Qing-Li Wu**, MingFu Wang and James E. Simon. LC/MS Determination of proanthocyanidins in areca nuts by high-performance liquid chromatography combined with electrospray ionization ion trap mass spectrometry. Presented at the 4<sup>th</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2004.
40. **Qing-Li Wu**, MingFu Wang and James E. Simon. Determination of Isoflavones in Red Clover and Related Species by LC/UV/ESI-MS, American Chemical Society Annual Meetings, New York, NY, Sept. 8-11, 2003 (invited oral presentation).
41. **Qing-Li Wu**, M. Wang, J. Kapteyn, R. Juliani, and J.E. Simon. Quality Control in Botanicals & Herbal Drugs and Issues Facing Botanicals Used in the Natural Products/Nutraceuticals Industry. Invited Lecture and Workshop. Sept 25-26, 2003, Purdue University, West Lafayette, IN.
42. William J. Sciarappa, Peter Nitzsche, **Qing-Li Wu**, Ming-Fu Wang, Jim Simon and Tung-Ching Lee, Phytochemistry and Horticultural properties of 16 Edamame Soybean Varieties. Annual Meeting of the American Society for Horticultural Science, Providence, Rhode Island. October 06, 2003.
43. MingFu Wang, Rodolfo Juliani, **Qing-Li Wu** and James E. Simon. Analysis of flavonoids and rosmarinic acid contents in different varieties of mint by HPLC and LC-MS Methods. American Chemical Society Annual Meetings, New York, NY, Sept. 8-11, 2003 (invited oral presentation).
44. Ming-Fu Wang, **Qing-Li Wu**, Jerimy Kapteyn, Rodolfo Juliani and J.E.Simon. Health Promoting Components in Asparagus, Artichokes and Other Foods. Foods for Health: A Look To the Future. For Health Care Professionals, Nurses, Dieticians and Health Care and Extension Specialists. Rutgers University, New Brunswick, NJ. September 10, 2003.
45. **Qing-Li Wu**, Ming-Fu Wang, James E. Simon. Determination of Isoflavones in Red Clover and Related Species by LC/UV/MSD. Presented at the 3<sup>rd</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2003.
46. Zhong-zhe Ma, David Y. W. Lee, **Qing-Li Wu**, SE Lukas, Determination of Puerarin in Human Plasma and Urine. American Chemical Society Annual Meetings, New York, NY, Sept. 8-11, 2003.

47. **Qing-Li Wu**, Ming-Fu Wang, James E. Simon. LC/UV/ESI-MS Analysis of Isoflavones in Immature Fresh Soy Seeds. Presented at the 3<sup>rd</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2003.
48. **Qing-Li Wu**, Mingfu Wang, and James E. Simon, The Botanical Core, Method Development, and Determination of Isoflavones by LC/MSD. Presented as a distance-learning seminar to the Botanical Center Seminar Series, Purdue/Alabama/Rutgers. November 14, 2002.
49. **Qing-Li Wu**, Ming-Fu Wang, Rodolfo Juliani, Adolfin Koroch, Jeremy Kapteyn, ChungHeon Park, David Rotter, Cicero Dechamps, Insong Han, Kobi Tadmor, Erica Renaud, Kathleen Shimomura and James E. Simon: New Use Agriculture and Natural Plant Products Program. 43<sup>rd</sup> Annual Meeting of the American Society of Pharmacognosy and 3<sup>rd</sup> Monroe Wall Symposium, New Brunswick, NJ. July 27-31, 2002.
50. **Qing-Li Wu**, Ming-Fu Wang and James E. Simon. Determination of Proanthocyanidins in grape products by LC/MSD. 43<sup>rd</sup> Annual Meeting of the American Society of Pharmacognosy and 3<sup>rd</sup> Monroe Wall Symposium, New Brunswick, NJ. July 27-31, 2002.
51. **Qing-Li Wu**, MingFu Wang and James E. Simon. LC/MS Determination of proanthocyanidins in grape products by LC/MSD. Presented at the 2<sup>nd</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2002.
52. **Qing-Li Wu**, Mingfu Wang, and James E. Simon. The Botanical Core and Quantitative Determination of Monoproanthocyanidins and Estimation of Oligoproanthocyanidins in Grape Products by LC/MSD. Presented as a distance-learning seminar to the Botanical Center Seminar Series, Purdue/Alabama/Rutgers. December 20, 2001.
53. **Qing-Li Wu**, Ming-Fu Wang, Rodolfo Juliani, Adolfin Koroch, Jeremy Kapteyn, Wudeneh Letchamo and James E. Simon. (2001): New Use Agriculture and Natural Plant Products Program. 5<sup>th</sup> National Symposium New Crops and New Uses: Strenght in Diversity, Atlanta, Georgia. Nov. 10-12. 2001.
54. David Zaurov, James E. Simon, **Qing-Li Wu** and Ming-Fu Wang. Medicinal Plant from Central and Western Asia. 5<sup>th</sup> National Symposium New Crops and New Uses: Strenght in Diversity, Atlanta, Georgia. Nov. 10-12. 2001.
55. **Qing-Li Wu**, J.E. Simon, R. Juliani, A. Koroch, J. Kapteyn, K. Shawe, K. Shimomura, and C.Santerre. Botanical Center and Age-Related Diseases. Core B. Botanical and Educational Outreach. Presented at the 1<sup>st</sup> Meeting of the Purdue/Alabama National Botanical Center. February 25-26, 2001.
56. J. L. Neumeyer, J. Bergman, N. S. Kula, **Qing-li Wu**, G. Leclerc, P. Nguyen and R. J. R. J. Baldessarini. Characterization of Novel D1 Partial-Agonists for the Treatment of Psychostimulant Addiction. 2000 Annual Meeting of Society for Neuroscience, P2153, 809.2, New Orleans, LA. November 4, 2000.
57. **Qing-li Wu**, Yu-xiu Feng, Shao-mei Shun and yu-Mei Shong, (1994): Pharmcognostic Study on *Piper* Species. The 3rd International Congress on Ethnopharmacology, Beijing, China, Sept. 6, 1994, C-28.