

Jie Liu

Professional Preparation:

- 2006 Kyushu University, Department of Forest and Forest Products Science Ph.D.
- 2002 Yamaguchi University, Department of Chemistry and Earth Sciences M.D.
- 1994 Beijing Medical University, Department of Pharmacology B.S.

Appointments

- 2010-present: North Carolina State University
- 2008 – 2010: Kyushu University, Academic researcher
- 2006 – 2008: Kyushu University, Foreign researcher
- 1994 – 1999: China-Japan Friendship Hospital, Pharmacist

Publications

1. Y. Kubota, H. Fujii, J. Liu, S. Tani, Synthesis and DNA binding properties of alkyl-linked bis(benzimidazole) compounds. *Nucleic Acids Res Suppl*, 1, 101-102, 2001
2. J. Liu, S. Tani, Y. Kubota. Solution structure of the DNA complexes with an alkyl-linked bis(benzimidazole) compound, 1,4-bis[5-(4-methyl-1-piperazonyl)-2-benzimidazolyl] butane. *Oxford University Press Nucleic Acids Research Supplement*, 2, 60-61, 2002
3. F. Konishi, S. Kumamoto, J. Liu, K. Shimizu, R. Kondo, S. Kaneko. Inhibitory Effect of Benign Prostate Hyperplasia by *Ganoderma lucidum*. *Japan Academic Conference of Clinical Alternative Medicine*, Vol.2, 14-17 ,2003 (in Japanese)
4. J. Liu, K. Shimizu, F. Konishi, K. Noda, S. Kumamoto, S. Kaneko, Y. Suimi, R. Kondo. Anti-androgenic Effect of Extract of *Ganoderma lucidum*. *Associate Journal of Japanese Society for Medical Use of Functional Foods*, 2(2), 67-72, 2004 (in Japanese)
5. J. Liu, R. Fujita, K. Shimizu, F. Konishi, K. Noda, S. Kumamoto, C. Ueda, H. Tajiri, S. Kaneko, Y. Suimi, R. Kondo. The Anti-androgenic Effect of *Ganoderma lucidum*. *Science and Cultivation of Edible and Medicinal Fungi*, P645-652, 2004

6. J. Liu, R. Fujita, K. Shimizu, F. Konishi, K. Noda, S. Kumamoto, S. Kaneko, Y. Suimi, R. Kondo. The effect of strain, growth stage and cultivating condition of *Ganoderma lucidum* on 5 α -reductase inhibition. *Journal of Wood Science*, 51, 189-192, 2005
7. R. Fujita, J. Liu, K. Shimizu, F. Konishi, K. Noda, S. Kumamoto, K. Kurashiki, R. Kondo. Anti-androgenic activities of *Ganoderma lucidum*. *Journal of Ethnopharmacology*, 102, 107-112, 2005
8. J. Liu, K. Kurashiki, K. Shimizu, R. Kondo. 5 α -Reductase inhibitory effect of triterpenoids isolated from *Ganoderma lucidum*. *Biological and Pharmaceutical Bulletin*, 29, 392-395, 2006
9. J. Liu, K. Shimizu, R. Kondo. Ganoderic acid TR, a new lanostanoid with 5 α - reductase inhibitory activity from the fruiting body of *Ganoderma lucidum*. *Natural Product Communications*, 1(5), 345-350, 2006
10. J. Liu, K. Kurashiki, K. Shimizu, R. Kondo. Structure activity relationship for inhibition of 5 α -reductase by triterpenoids isolated from *Ganoderma lucidum*. *Bioorganic and Medicinal Chemistry*, 14(24), 8654-60, 2006
11. K. Shimizu, J. Liu, I. Miyamoto, R. Kondo. The Preventative Effect of Benign Prostatic Hyperplasia and Osteoporosis by *Ganoderma lucidum*. *Foods & Food Ingredients Journal of Japan*, 211(2), 124-133, 2006 (in Japanese)
12. J. Liu, K. Shimizu, R. Kondo. The Functionality of *Ganoderma lucidum* on Aging Society --The Preventative Effect of Benign Prostatic Hyperplasia--. *Green Spirits*, 3(3),3-9, 2007 (in Japanese)
13. J. Liu, K. Shimizu, F. Konishi, S. Kumamoto, R. Kondo. The anti-androgen effect of ganoderol B isolated from the fruiting body of *Ganoderma lucidum*. *Bioorganic and Medicinal Chemistry*, 15, 4966-4972, 2007
14. J. Liu, K. Shimizu, F. Konishi, K. Noda, S. Kumamoto, K. Kurashiki, R. Kondo. Anti-androgenic activities of the triterpenoids fraction of *Ganoderma lucidum*. *Food Chemistry*, 100, 1691-1696, 2007
15. K. Shimizu, I. Miyamoto, J. Shiono, J. Liu, R. Kondo. The Functionality of *Ganoderma lucidum* on Aging Society--The Preventative Effect of Osteoporosis—. *Green Spirits*, 3(4),3-10, 2008 (in Japanese)
16. J. Liu, R. Ando, K. Shimizu, K. Hashida, R. Makino, S. Ohara, R. Kondo. Steroid 5 α -reductase inhibitory activity of condensed tannins from woody plants. *Journal of Wood Science*, 54, 68-75, 2008
17. J. Liu, K. Shimizu, R. Kondo. Anti-androgenic activity of fatty acids. *Chemistry and Biodiversity*, 6, 503-512, 2009

18. J. Liu, J. Shiono, K. Shimizu, H. Yu, C. Zhang, F. Jin, R. Kondo. 20(R)-Ginsenoside Rh2, not 20(S), is a selective osteoclastogenesis inhibitor without any cytotoxicity. *Bioorganic and Medicinal Chemistry Letters*, 19, 3320-3323, 2009
19. J. Liu, J. Shiono, K. Shimizu, A. Kukita, T. Kukita, R. Kondo. Ganoderic acid DM: Anti-androgenic osteoclastogenesis inhibitor. *Bioorganic and Medicinal Chemistry Letters*, 19(8), 2154-2157, 2009
20. K. Shimizu, I. Miyamoto, J. Liu, F. Konishi, S. Kumamoto, R. Kondo. Estrogen-like activity of ethanol extract of *Ganoderma lucidum*. *Journal of Wood Science*, 55(1), 53-59, 2009
21. J. Liu, S. Tamura, K. Kurashiki, K. Shimizu, K. Noda, F. Konishi, S. Kumamoto, R. Kondo. Anti-androgen effects of extracts and compounds from *Ganoderma lucidum*. *Chemistry and Biodiversity*, 6(2), 231-243, 2009
22. Miyamoto, J. Liu, K. Shimizu, M. Sato, A. Kukita, T. Kukita, R. Kondo. Regulation of osteoclastogenesis by ganoderic acid DM isolated from *Ganoderma lucidum*. *European Journal of Pharmacology*, 602, 1-7, 2009
23. J. Liu, J. Shiono, K. Shimizu, R. Kondo. Ganoderic acids from *Ganoderma lucidum*. Inhibitory activity of osteoclastic differentiation and structural criteria. *Planta Medica*, 75, 1-3, 2009
24. J. Liu, J. Shiono, Y. Tsuji, K. Shimizu, R. Kondo. Methyl ganoderic acid DM: a selective potent osteoclastogenesis inhibitor. *The Open Bioactive Compounds Journal*, 2, 37-42, 2009
25. J. Liu, K. Shimizu, R. Kondo. The multifunction of *Ganoderma lucidum*. *Aroma research* 41, 70-75, 2010 (in Japanese)

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The XVIth International Congress on Science and Cultivation of Edible and Medicinal Fungi
March 14-17, 2004 Miami, Florida, USA
2. K. Shimizu, J. Liu, I. Miyamoto R. Kondo. Anti-androgenic and estrogen-like activities of *Ganoderma lucidum*. *IWSS*, 424-428, 2005
The Sixth International Wood Science Symposium, August 29-31, 2005 Bali, Indonesia
3. K. Shimizu, J. Liu, I. Miyamoto R. Kondo. Anti-androgenic and estrogen-like activities of *Ganoderma lucidum*.
8th Indonesian Wood Research Society (IWoRS), September 3-5, 2005 Tenggarong, Indonesia

4. J. Liu, K. Shimizu, F. Konishi, S. Kumamoto, R. Kondo. Anti-Androgenic Effect of *Ganoderma lucidum*.
2006' International Symposium for Pharmaceutical Sciences in Beijing, October 11-12, 2006
Peking, China
5. J. Liu, K. Shimizu, F. Konishi, S. Kumamoto, R. Kondo. Anti-Androgenic Effect of *Ganoderma lucidum*. *International Journal of Medicinal Mushrooms*, 9(3,4), 211-212, 2007
IMMC4 (The Fourth International Medicinal Mushroom Conference), September 23-27, 2007
Ljubljana, Slovenia
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Asian Symposium for Pharmaceutical Science in JSPS Asian Core Program October 16-17, 2007 Huis Ten Bosch, Sasebo, Japan.
7. J. Shiono, I. Miyamoto, J. Liu, K. Shimizu, R. Kondo. The inhibitory compounds from *Ganoderma lucidum* on osteoclast formation.
Asian Symposium for Pharmaceutical Science in JSPS Asian Core Program October 16-17, 2007, Huis Ten Bosch, Sasebo, Japan.
8. J. Liu, K. Shimizu, R. Kondo. The effects of triterpenoids isolated from *Ganoderma lucidum* on 5α -reductase, androgen receptor and LNCaP cells. *Asian Symposium for Pharmaceutical Science in JSPS Asian Core Program*, 98-100, 2008
2008 'Shanghai International Symposium on pharmacy December 18-20, 2008 Shanghai, China
9. J. Liu, K. Shimizu, R. Kondo. The prevention effect of ganoderic acid DM on prostate cancer. *The 5th Meeting of East Asia for Collaboration on Edible Fungi*, 121-123, 2008
The 5th Meeting of East Asia for Collaboration on Edible Fungi September 17-20, 2008 Fukuoka, Japan
10. S. Fatmawati, J. Liu, K. Shimizu, R. Kondo. Aldose reductase inhibitors from *Ganoderma lucidum*. *Planta Medica*, 74(9), 1002-1003, 2008
7th Joint Meeting of the Association Francophone pour l'Enseignement et la Recherche en Pharmacognosie (AFERP), American Society of Pharmacognosy (ASP), Society for Medicinal Plant Research (GA), Phytochemical Society of Europe (PSE), and Society Italiana di Fitochimica (SIF), August 3-8, 2008 Athens, Greece