



NAME
汪貴珍
Wang, Guei-Jane

POSITION TITLE
Professor/Investigator

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
National Yang-Ming University, Taipei, Taiwan	M.S.	1991	Pharmacology
University of Alberta, Edmonton, Alberta, Canada	Predoctoral Fellow	1993-1995	Physiology
National Yang-Ming University, Taipei, Taiwan	Ph.D.	1996	Physiology

CURRENT POSITIONS

2012- Present Professor, Graduate Institutes of Clinical Medical Science and Biomedical Sciences, China Medical University, Taichung, Taiwan

2013- Present Investigator, Department of Medical Research, China Medical University Hospital, Taichung, Taiwan

RESEARCH INTEREST

1. Cardiovascular Physiology and Pharmacology
2. Drug Development for Vascular Metabolism
3. Translational Medicine

HONORS

1. 1989 Science and Techniques Program Reward, National Science Council, Taiwan
2. 2000 to 2009 Chairman of The Board of Controls, The Society of Chinese Natural Medicine, Taiwan
3. 2006-2009 National Research Program for Genomic Medicine, Taiwan
4. 2006 Excellence Research Award, National Research Institute of Chinese Medicine, Taiwan
5. 2006 Best Poster Award, National Yang-Ming University, Taiwan
6. 2007 Excellence Research Award, National Research Institute of Chinese Medicine, Taiwan
7. 2010 International Science and Technology Program Reward, National Science Council, Taiwan
8. 2011 Excellence Poster Award, Taipei Medical University, Taipei, Taiwan
9. 2015 Excellence Tutor Award, China Medical University, Taiwan

REVIEWER

1. Acta Pharmacologica Sinica
2. Atherosclerosis
3. Biochimica et Biophysica Acta
4. Biomedical Central
5. Cellular & Molecular Life Sciences
6. Chinese Journal of Physiology

7. Journal of Chinese Medicine
8. Journal of Pharmacy and Pharmacology
9. Life Sciences
10. Physiological Genomics
11. Journal of Ethnopharmacology

MEMBERSHIP in PROFESSIONAL SOCIETIES

1. American Physiology Association
2. The Chinese Physiological Society
3. The Pharmacological Society in Taiwan
4. The Society of Chinese Natural Medicine
5. Taiwan Proteomics Society

PEER-REVIEWED PUBLICATIONS (SINCE 1996)

- Wu CH, Pan CH, Lee CK, Sheu MJ, Liu FC, Wang GJ, Wu CH. Antiobesity and antihyperlipidaemic effect of Yan-Sheng-Yin in animals and humans. *Journal of Functional Food* 24: 173-182, 2016.
- Wang CC, Wang YC, Wang GJ, Shen MY, Chang YL, Liou SY, Chen HC, Chang CT. Skin autofluorescence is associated with endothelial dysfunction in uremic subjects on hemodialysis. *PLoS One* 11: e0147771, 2016.
- Chang CT, Wang GJ, Kuo CC, Hsieh JY, Lee AS, Chang CM, Wang CC, Shen MY, Huang CC, Sawamura T, Yang CY, Stancel N, Chen CH. Electronegative low-density lipoprotein increases coronary artery disease risk in uremia patients on maintenance hemodialysis. *Medicine* 95:e2265, 2016.
- Wang ZH, Hsu HW, Chou JC, Yu CH, Bau DT, Wang GJ, Huang CY, Wang PS, Wang SW. Cytotoxic effect of *S*-petasin and iso-*S*-petasin on the proliferation of human prostate cancer cells. *Anticancer Research* 35: 191-200, 2015.
- Lin YL, Yet SF, Hsu YT, Wang GJ*, Hung SC*. Mesenchymal stem cells ameliorate atherosclerotic lesions via restoring endothelial function. *Stem Cells Translational Medicine* 4: 44-55, 2015.
- Wang CC, Lin CL, Wang GJ, Chang CT, Sung FC, Kao CH. Atrial fibrillation associated with increased risk of venous thromboembolism: a population-based cohort study. *Thrombosis and Haemostasis* 113: 185-192, 2015.
- Huang TJ, Tsai YC, Chiang SY, Wang GJ, Kuo YC, Chang YC, Wu YY, Wu YC. Anti-viral effect of a compound isolated from *Liriope platyphylla* against hepatitis B virus in vitro. *Virus Research* 192: 16-24, 2014.
- Lin YS, Lu YL, Wang GJ, Liang HJ, Hou WC. Vasorelaxing and antihypertensive activities of synthesized peptides derived from computer-aided simulation of pepsin hydrolysis of yam dioscorin. *Botanical Studies* 55: 49, 2014.
- Lieu FK, Lin CY, Wang PS, Jian CY, Yeh YH, Chen YA, Wang KL, Lin YC, Chang LL, Wang GJ, Wang SW. Effect of swimming on the production of aldosterone in rats. *PLoS One* 9: e87080, 2014.
- Chang YC, Lu CK, Chiang YR, Wang GJ, Ju YM, Kuo YH, Lee TH. Diterpene glycosides and polyketides from *Xylothemulus gibbisporus*. *Journal of Natural Products* 77: 751-757, 2014.
- Wang CC, Linc CL, Chang YL, Wang GJ, Sung FC, Kao CH. Herpes zoster infection associated with acute coronary syndrome: a population-based retrospective cohort study. *British Journal of Dermatology* 170: 1122-1129, 2014.
- Wang CC, Peng CL, Wang GJ, Sung FC, Kao CH. Pneumococcal pneumonia and the risk of acute coronary syndrome: a populationbased cohort study. *International Journal of Cardiology* 168: 4480-4481, 2013.
- Hsieh JY, Chang CT, Huang MT, Chang CM, Chen CY, Shen MY, Liao HY, Wang GJ, Chen CH, Chen CJ, Yang CY. Biochemical and functional characterization of charge-defined subfractions of high-density lipoprotein from normal adults. *Analytical Chemistry* 85: 11440-11448, 2013.
- Chen YC*, Lee HZ, Chen HC, Wen CL, Kuo YH, Wang GJ*. Anti-inflammatory components from the root of *Solanum erianthum*. *International Journal of Molecular Sciences* 14: 12581-12592, 2013.
- Lee LW, Wang GJ*, Lin MH, Ju YM, Lin YW, Chen FY, Lee TH*. Isolation and characterization of sesquiterpenes from *Arecophila saccharicola* YMJ96022401 with NO production inhibitory activity. *Phytochemistry* 85: 129-136, 2013.
- Huang YT, Chang HS, Wang GJ, Lin CH, Chen IS. Secondary Metabolites from the Roots of *Beilschmiedia tsangii* and Their Anti-Inflammatory Activities. *Int J Mol Sci* 13: 16430-16443, 2012.

- Lin YS, Lu YL, Wang GJ, Chen LG, Wen CL, Hou WC. Ethanol extracts and isolated compounds from small-leaf grape (*Vitis thunbergii* var. *taiwaniana*) with antihypertensive activities. *J Agric Food Chem* 60: 7435-7441, 2012.
- Lee AS, Wang GJ, Chan HC, Chen FY, Chang CM, Yang CY, Lee YT, Chang KC, Chen CH. Electronegative low-density lipoprotein induces cardiomyocyte apoptosis indirectly through endothelial cell-released chemokines. *Apoptosis* 17: 1009-1018, 2012.
- Tsai WC, Wu MT, Wang GJ, Lee KT, Lee CH, Lu YH, Yen HW, Chu CS, Chen YT, Lin TH, Su HM, Hsu PC, Cheng KH, Duh TH, Ko YC, Sheu SH, Lai WT. Chewing areca nut increases the risk of coronary artery disease in Taiwanese men: a case-control study. *BMC Public Health* 12: 162, 2012.
- Wang GJ, Chang CT, Yang CY, Chen CH. Negatively charged L5 as a naturally occurring atherogenic low-density lipoprotein. *Biomedicine* 2: 147-154, 2012.
- Wang GJ, Liang WL, Ju YM, Yang WB, Chang YW, Yang WB, Lee TH. Inhibitory effect of triterpenoids from the fermented broth of the Ascomycete *Stilbohypoxylon elaeicola* YMJ173 on nitric oxide production in RAW264.7 macrophages. *Chem Biodivers* 9: 131-138, 2012.
- Wong SL, Chang HS, Wang GJ, Chiang MY, Huang HY, Chen CH, Tsai SC, Lin CH, Chen IS. Secondary metabolites from the roots of *Neolitsea daibuensis* and their anti-inflammatory activity. *J Nat Prod* 74: 2489-2496, 2011.
- Tsai WJ, Chang CT, Wang GJ, Lee TH, Chang SF, Lu SC, Kuo YC. Arctigenin from *Arctium lappa* inhibits interleukin-2 and interferon gene expression in primary human T lymphocytes. *Chin Med* 6: 12-19, 2011.
- Huang YT, Chang HS, Wang GJ, Cheng MJ, Chen CH, Yang YJ, Chen IS. Anti-inflammatory endiandric acid analogues from the roots of *Beilschmiedia tsangii*. *J Nat Prod* 74: 1875-1880, 2011.
- Lee TH, Lu CK, Wang GJ, Chen JJ, Chang YC, Yang WB, Ju YM. Sesquiterpene glycosides from *Cosmospora joca*. *J Nat Prod* 74: 1561-1567, 2011.
- Liao JF, Chiou WF, Shen YC, Wang GJ, Chen CF. Anti-inflammatory and anti-infectious effects of *Evodia rutaecarpa* (Wuzhuyu) and its major bioactive components. *Chin Med* 6: 6-13, 2011.
- Ke LY, Engler DA, Lu J, Matsunami RK, Chan HC, Wang GJ, Yang CY, Chen CH. Chemical composition-oriented receptor selectivity of L5, a naturally occurring atherogenic low-density lipoprotein. *Pure Appl Chem* 83: 1731-1740, 2011.
- Liou BJ, Chang HS, Wang GJ, Chiang MY, Liao CH, Lin CH, Chen IS. 2011, Secondary metabolites from the leaves of *Neolitsea hiiranensis* and the anti-inflammatory activity of some of them. *Phytochemistry* 72: 415-422, 2011.
- Juan YC, Tsai WJ, Lin YL, Wang GJ, Cheng JJ, Yang HY, Hsu CY, Liu HK. The novel anti-hyperglycemic effect of *Paeoniae radix* via transcriptional suppression of phosphoenolpyruvate carboxykinase (PEPCK). *Phytomedicine* 17: 626-634, 2010.
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- Wang GJ, Lin YL, Chen CH, Wu XC, Liao JF, Ren J. Cellular calcium regulatory machinery of vasorelaxation elicited by petasin. *Clin Exp Pharmacol Physiol* 37: 309-315, 2010.
- Chang CL, Wang GJ, Zhang LJ, Tsai WJ, Chen RY, Wua YC, Kuo YH. Cardiovascular protective flavonolignans and flavonoids from *Calamus quiquesetinervius*. *Phytochemistry* 71: 271-279, 2010.
- Ju YM, Wang GJ, Chen CY, Tsau YJ, Chou CH, Lee TH. Chemical constituents from fermented broth and mycelium of the basidiomycete *Lacrymaria velutina*. *Bot Stud* 51:311-315, 2010.
- Wang GJ, Tsai TH, Chang TT, Chou CJ, Lin LC. Lanostanes from *Phellinus igniarius* and their iNOS inhibitory activities. *Planta Med* 75: 1-6, 2009.
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- Lee TH, Huang NK, Lai TC, Yang ATY, Wang GJ. Anemonin, from *Clematis crassifolia*, potent and selective inducible nitric oxide synthase inhibitor. *J Ethnopharmacol* 116: 518-527, 2008.
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- Wang GJ, Tsai TH, Lin LC. Prenylflavonol, acylated flavonol glycosides and related compounds from *Epimedium sagittatum*. *Phytochemistry* 68: 2455-2464, 2007.
- Wang GJ, Lin SY, Wu WC, Hou WC. DPPH radical scavenging, semicarbazide-sensitive amine oxidase inhibitory and cytotoxic activities of *Taiwanofungus camphoratus* (Chang-Chih). *Biosci Biotechnol Biochem* 71: 1873-1878, 2007.
- Wang GJ, Chen SM, Chen WC, Chang YM, Lee TH. Selective inducible nitric oxide synthase suppression by new bracteanolides from *Murdannia bracteata* *J Ethnopharmacol* 112: 221-227, 2007.
- Hou WC, Tsay HS, Liang HJ, Lee TY, Wang GJ, Liu DZ. Improving abnormal hemorheological parameters in aging guinea pigs by water-soluble extracts of *Salvia miltiorrhiza* Bunge. *J Ethnopharmacol* 111: 483-489, 2007.
- Lie YY, Yeh PH, Wang GJ, Huang SW, Chi CW, Ho LK, Pan WHT. Baicalein everses the methamphetamine-induced striatal dopaminergic neurotoxicity in mice. *Journal of Food and Drug Analysis* 14: 317-322, 2006.
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- Wang GJ, Lai TC, Chen C. Inhibitory effects of L-arginine derivatives on endothelium-dependent vasorelaxing response to acetylcholine of the rat aorta. *Eur J Med Chem* 39: 611-617, 2004.
- Wang GJ, Liao JF, Hintz KK, Chen WP, Su MJ, Lin YL, Shi CC, Chen CF, Ren J. Calcium-antagonizing activity of *S*-petasin, a hypotensive sesquiterpene from *Petasites formosanus*, on inotropic and chronotropic responses in isolated rat atria and cardiac myocytes. *Naunyn-Schmiedeberg's Arch Pharmacol* 369: 322-329, 2004.
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- Ko HC, Chen KT, Chou CJ, Chang YJ, Wang GJ, Chen CF. Quantitatively evaluation of bioactive components of *Evodia rutaecarpa* (*Tetradium ruticarpum*) in different harvesting times. *Chin Pharmaceut J* 55: 305-312, 2003.
- Lee TY, Wang GJ, Chiu JH, Lin HC. Long-term administration of *Salvia miltiorrhiza* ameliorates carbon tetrachloride-induced hepatic fibrosis in rats. *J Pharm Pharmacol* 55: 1561-1568, 2003.
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- Lee TY, Mai LM, Wang GJ, Chiu JH, Lin YL, Lin HC. Protective mechanism of *Salvia miltiorrhiza* on carbon tetrachloride-induced acute hepatotoxicity in rats. *J Pharmacol Sci* 91: 202-210, 2003.
- Esberg LB, Wang GJ, Lin YL, Ren J. Iso-*S*-petasin, a hypotensive sesquiterpene from *Petasites formosanus*, depresses cardiac contraction and intracellular Ca^{2+} transients in adult rat ventricular myocytes. *J Pharm Pharmacol* 55: 103-107, 2003.

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- Wang GJ, Lin LC, Chen CF, Cheng JS, Lo YK, Chou KJ, Lee KC, Liu CP, Wu YY, Su W, Chen WC, Jan CR. Effect of timosaponin A-III, from *Anemarrhenae asphodeloides* Bunge (Liliaceae), on calcium mobilization in vascular endothelial and smooth muscle cells and on vascular tension. *Life Sci* 71: 1081-1090, 2002.
- Lee TH, Wang GJ, Lee CK, Kuo YH, Chou CH. Inhibitory effects of glycosides from the leaves of *Melaleuca quinquenervia* on vascular contraction of rats. *Planta Med* 68: 492-496, 2002.
- Wang GJ, Wu XC, Lin YL, Ren J, Shum AY, Wu YY, Chen CF. Ca²⁺ channel blocking effect of iso-S-petasin in rat aortic smooth muscle cells. *Eur J Pharmacol* 445: 239-245, 2002.
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- Chen CF, Chiou WF, Chou CJ, Liao JF, Lin LC, Wang GJ, Ueng YF. Pharmacological effects of *Evodia rutaecarpa* and its bioactive components. *Chin Pharmaceut J* 54: 419-435, 2002.
- Hung PH, Lin LC, Wang GJ, Chen CF, Wang PS. Inhibitory effect of evodiamine on aldosterone release by zona glomerulosa cells in male rats. *Chin J Physiol* 44: 53-57, 2001.
- Wang GJ, Shum AY, Lin YL, Liao JF, Wu XC, Ren J, Chen CF. Calcium channel blockade in vascular smooth muscle cells: major hypotensive mechanism of S-petasin, a hypotensive sesquiterpene from *Petasites formosanus*. *J Pharmacol Exp Ther* 297: 240-246, 2001.
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- Lin H, Tsai SC, Chen JJ, Chiao YC, Wang SW, Wang GJ, Chen CF, Wang PS. Effects of evodiamine on the secretion of testosterone in rat testicular interstitial cells. *Metabolism Clin Exp* 48:1532-1535, 1999.
- Wang GJ, Wu XC, Chen CF, Lin LC, Huang YT, Shan J, Pang PK. Vasorelaxing action of rutaecarpine: effects of rutaecarpine on calcium channel activities in vascular endothelial and smooth muscle cells. *J Pharmacol Exp Ther* 289: 1237-1244, 1999.
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RECENT RESEARCH SUPPORT

1. A small-molecule lead compound for the treatment of cardiometabolic disease. (DMR-105-091) from China Medical University Hospital, Taiwan