



Curriculum Vitae



Brian Bor-Chun Weng

個人簡歷
翁博群



Updated: 2017.7



✚ 基本資料 (General Information)

中文姓名 (Chinese Name)	翁博群	英文姓名(English Name)	Weng, Bor-Chun (Brian)
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✚ 主要學歷 (Academic History)

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
維吉尼亞理工州立大學 Virginia Polytechnic Institute and State University	USA	Animal and Poultry Sci. Graduate School of Agriculture and Life Sci.	PhD	<u>1998/8</u> 至 <u>2002/8</u>
華盛頓州立大學 Washington State University	USA	Animal Sci. Graduate School of Agriculture	MS	<u>1995/8</u> 至 <u>1998/8</u>
東海大學 Tunghai University	ROC	畜產與生物科技系 Dept. Animal Sci.	BS	<u>1991/8</u> 至 <u>1993/6</u>
國立屏東農專 National Pingtung Polytechnic Institute	ROC	動物科學與畜產系 Dept. Animal Production	BA	<u>1988/8</u> 至 <u>1991/6</u>

✚ 現職及與專長相關之經歷 (Current Position and Experience)

服務機構 Serviced Institute	服務部門/系所 Division.	職稱 Title	起訖年月(西元年/月)
現職：Current Position			
國立嘉義大學 National Chiayi University	生命科學院微生物免疫與 生物藥學系 Dept. Micro. Immunol. Biopharm., College of Life Science	副教授 Associated Professor	2012 / 8- current
國立嘉義大學 National Chiayi University	動物照護及使用委員會 IACUC	委員 Council of member	2015/8 - current
嘉義大學 College of Life Sci., NCYU	微生物免疫與生物藥學系 Dept. Microb. Immunol. Biopharm.	系主任 Department head	2017/8 - current

經歷：Vita			
嘉義大學生命科學院 College of Life Sci., NCYU	全英語學程 Global Master Program of Life Sciences	執行長 Chief executive officer	2016/8 -2017/7
嘉義大學生命科學院檢驗分 析及技術推廣服務中心 Analytical and Technical Service Center (ATSC), NCYU	實驗動物組 Laboratory Animal Facility, ATSC, College of Life Science, NCYU	管理人 Manager	2011/8 – 2014/7
中國畜牧學會 Chinese Society of Animal Sci.	第二十屆 20 th	理事 Council of Members	2010-2012
國立嘉義大學 National Chiayi University	動物照護及使用小組 IACUC	執行秘書 Executive secretary	2008-2011
國立嘉義大學 National Chiayi University	生命科學院 College of Life Sci.	兼任助理 教授 Adj. Assist. Prof.	2003/01 至 2003 / 07
台北榮民總醫院 Veteran General Hospital, Taipei	骨科研究室 Laboratory of Stem Cells in Orthopedics	博士後研究 Post. Doc.	2002/ 9 至 2003 / 5
維吉尼亞理工大學 Virginia Polytechnic Inst.	動物科學系 Animal Sci.	兼職教學助理 Part-time teaching assistant	1999 / 8 至 2000 / 8
華盛頓州立大學 Washington State University	動物科學系 Animal Sci.	兼職研究助理 Part-time research assistant	1995 / 12 至 1998 / 6
國立屏東技術學院 National Pingtung Polytechnic Institute	獸醫系 Dept. Veterinary Sci.	全職研究助理 Full-Time research assistant	1993 / 8 至 1994 / 4

研究方向 (Fields of Research Interest)

Immunophysiology	Phytochemicals and Phytonutrients Studies	Nutraceutical and Drug Discovery	Feed additives and Animal immunity
	Nutritional Immunology	Reproductive Immunology	Aging and Immunehomeostasis

論文著述：(Publications)

博士論文 (PhD. Dissertation)

Weng, B.C. Advisor: D.M. Denbow *Immunomodulation by dietary lipids: soybean oil,*

menhaden fish oil, chicken fat, and hydrogenated soybean oil in Japanese quail (Coturnix coturnix japonica) and Bobwhite quail (Colinus virginianus) 2002. 8

■ 碩士論文 (Master Thesis)

Weng, B.C. Advisor: B.P. Chew *Uptake of Dietary β -Carotene by Blood, Corpus Luteum and Uterine Endometrium and Changes in Ovarian Steroid Hormone and Uterine Protein Production during the Estrous Cycle in Dogs Fed β -Carotene* 1997. 12

✚ 研討會論文摘要海報 (Conference Abstract and Poster)

- ◆ 1998, Weng, B.C., B.P. Chew, T.S. Wong, J.S. Park, H.W. Kim, and A.J. Lepine, beta-Carotene uptake by corpus luteum and uterus and changes in ovarian steroids and uterine proteins during the estrous cycle in dogs. , FASEB J. (國際)
- ◆ 1998, Wong, T.S., B.C. Weng, B.P. Chew, J.S. Park, H.W. Kim, and A.J. Lepine., Uptake of β -carotene by ovaries and uterus and influence on reproduction of steroid and uterine proteins during estrous cycle in cats , FASEB J.. (國際)
- ◆ 1998, Cervený, C., B.P. Chew, N. Cha, T.S. Wong, J.S. Park, B.C. Weng, M.G. Hayek, and G.A. Reinhart., Lutein uptake by blood and leukocytes in the dog , FASEB J.. (國際)
- ◆ 1998, Park, H.J., T.S. Wong, B.P. Chew, J.S. Park, B.C. Weng, H.W. Kim, K.M. Byrne, M.G. Hayek, and G.A. Reinhart., Dietary beta-Carotene did not influence cell-mediated and humoral immune response in the domestic cat. , FASEB J. (國際)
- ◆ 1998, Chew, B.P., J.S. Park, T.S. Wong, B.C. Weng, H.W. Kim, K.M. Byrne, M.G. Hayek, and G.A. Reinhart., Role of dietary beta-carotene in modulating cell mediated and humoral immune response in dogs , FASEB J. (國際)
- ◆ 1998 Kim, H.W., B.P. Chew, T.S. Wong, J.S. Park, B.C. Weng, K.M. Byrne, and M.G. Hayek, Modulation of cell-mediated immunity by dietary lutein in dogs , FASEB J. (國際)
- ◆ 2003 蔡秀敏、洪紹凱、翁博群、陳國隆、邱文石, 不同外源雄性素對早期去勢公雞週邊血液淋巴球次族群之影響 , Chinese Society of Animal Sciences 中畜年會, 33(增刊):75. (國內)
- ◆ 2003 張慕慈, 廖伊慧, 翁博群, 歐炯雄, 邱文石, 陳國隆, β -聚葡萄糖對雞隻細胞性免疫、T 淋巴球亞群及感染腸炎沙門氏菌抑菌之影響 , Chinese Society of Animal Sciences 中畜年會, 33(增刊):76. (國內)
- ◆ 2003 廖伊慧、張慕慈、趙玲雅、翁博群、歐炯雄、邱文石、陳國隆, β -1,3-聚葡萄糖對抑制雞隻感染腸炎及雛白痢沙門氏菌之效果及雞巨噬細胞吞噬能力之影響 , Chinese Society of Animal Sciences 中畜年會, 33(增刊): 244. (國內)
- ◆ 2004 林美慧, 胡佳雯, 陳光渝, 陳威年, 翁博群, The Comparison of Pathogenicity of Different Salmonella Strains via Flow Cytometry, 全國第一屆沙門氏菌研討會. (國內)
- ◆ 2004 陳光渝, 陳威年, 林美慧, 胡佳雯, 翁博群, beta-Glucan Enhances the Association of Salmonella and Macrophages, 全國第一屆沙門氏菌研討會. (國內)
- ◆ 2005 廖伊慧, 商瑜珊, 陳綵慈, 翁博群, 吳錫勳, 陳國隆, 飼糧中添加 β -聚葡萄糖對紐西蘭母兔懷孕期間免疫性狀之影響 , Chinese Society of Animal Sciences 中畜會誌. (國內)

- ◆ 2005 廖伊慧, 商瑜珊, 吳錫勳, 翁博群, 陳國隆, 紐西蘭與雷克斯母兔及其仔兔免疫性狀之比較, Chinese Society of Animal Sciences 中畜會誌. (國內)
- ◆ 2006. 張世緯、商瑜珊、吳錫勳、翁博群、陳國隆。2006。混合型益生菌發酵飼料對哺乳期母兔繁殖及免疫性狀之影響。中畜會誌。35(增刊):212。
- ◆ 2006 翁博群, 周傳凱, 林松達, 洪玉靜, 余俊強, 林志生, 吳希天 Overexpression of GFP in leukocytes at PgK-1/GFP transgenic mice, 中華實驗動物學會 95 年論文集. (國內)
- ◆ 2006 何佩君, 張証維, 胡佳雯, 吳欣蓉, 邱冠期, 林雯歆, 黃俊偉, 翁博群, Isoprenoids 可藉由降低 survivin mRNA 表達而抑制小鼠淋巴瘤細胞的增生。 , 行政院中醫藥委員會委辦研究計畫成果發表會暨第二十一屆天然藥物研討會. (國內)
- ◆ 2006 張証維, 蔡睿勳, 何佩君, 胡佳雯, 吳欣蓉, 林庭而, 黃俊偉, 邱冠期, 林雯歆, 翁博群*, 漢黃芩素(wogonin)之新化學合成衍生物有強化抑制小鼠淋巴瘤細胞的增生, 行政院中醫藥委員會委辦研究計畫成果發表會暨第二十一屆天然藥物研討會. (國內)
- ◆ 2006 Brian Bor-Chun Weng*, Jin-Yi Wu, and Chi-Shih Chu, Synthesis, Investigation on Immunity and Cancer Prevention of Wogonin Derivatives, 2006 FASEB Meeting Federation American Society of Experimental Biology, San Francisco, CA, USA. FASEB J. 2006 20:A1129. (國際)
- ◆ 2006 Brian Bor-Chun Weng*, Chia-Wen Hu, and Chi-Shih Chu, Barley Extracted Beta-Glucan Enhances Macrophage Defense to Intracellular Survival Salmonella, 2006 FASEB Meeting Federation American Society of Experimental Biology, San Francisco, CA, USA. FASEB J. 2006 20:A1056-A1057. (國際)
- ◆ 2006. 12. 邱義源, 翁博群, 劉怡文。正常小鼠餵食白藜蘆醇或花生芽影響其壽命與免疫力之探討 台灣食品科學技術研討會第 37 次會員大會
- ◆ 2006_Chen TT, Ye RH, Wu HH, Weng BC, Yu CY, and Chen KL. Effect of dietary β -glucan on immunity and coccidiosis in New Zealand white rabbit. 12th AAAP Pusan, Korea PPN-023.(國際)
- ◆ 2006. Weng BC, Shang YS, Hunga CD, Wu HH, Chen KL. The investigation and comparison of the immunity and the coccidiosis resistance of New Zealand White and Rex Rabbits. 12th AAAP. Pusan, Korea. (國際)
- ◆ 2007. 12. 張家菁、孫承平、陳綵慈、張銘煌、黃襟錦、翁博群、邱文石、陳國隆。高膽固醇誘發紐西蘭白兔心血管疾病模式之建立。中畜會誌。36(增刊):100。
- ◆ 2008. 9. 林雯歆, 邱冠期, 張証維, 廖伊慧, 蔡永珍, 康輔成, 張敬昆, 翁博群, 生理濃度下比較 Resveratrol 與 Arachidin 對抑制小鼠 RAW264.7 細胞株一氧化氮產生的活性, 第二十三屆天然藥物研討會, P.49. (國內)
- ◆ 2008 BC Weng, WJ Chen, YC Chung, LC Hsia Age associated immunological transition in sheep - the immunological evaluations over three periods of lifespan in sheep. 13th AAAP. Animal agriculture and the role of small holder farmeres in a global economy. Hanoi, Vietnam (國際)
- ◆ 2008. 翁博群、陳軍至、陳韋任、夏良宙, Effect of different density on the immune response

of nursery pigs 不同飼養密度對保育豬免疫之影響",中國畜牧學會年會, Annual Meeting of Chinese Society of Animal Sci. PP.211-211,2008/12/7. (國內)

- ◆ 2008 翁博群、曾翔蒂、陳韋任、夏良宙," Effect of supplementing dietary threonine on the immune response of weaning piglets under high and low environmental temperature 高溫與低溫環境下羥丁胺酸添加於飼糧中對離乳仔豬免疫之影響",中國畜牧學會年會, Annual Meeting of Chinese Society of Animal Sci. PP.116-116,2008/12/7. (國內)
- ◆ 2008. 陳永平、黃琳蘋、陳秋麟、翁博群、羅登源、吳建平、陳國隆。交織頂孢黴菌發酵產物對產蛋雞免疫性狀及其仔雞活力之影響。第九屆兩岸三地優質雞隻研討會暨論壇論文集， p69-72。台灣。
- ◆ 2008. 楊力遠、蕭蒼、陳秋麟、翁博群、邱文石、陳國隆。靈芝發酵產物對產蛋雞免疫性狀及其仔雞活力影響。第九屆兩岸三地優質雞隻研討會暨論壇論文集， p179-182。台灣。
- ◆ 2008. Chen KL, Kho WL, Yung CF, Hsieh CW, and Weng BC. Effect of Bacillus subtilis natto and Saccharomyces cerevisiae mixture fermented feed on the growth performance enhancement of broilers. 13th World's Poultry Congress. Brisbane, Australia. (國際)
- ◆ 2009 黃乃涵、翁博群、翁瑞奇、夏良宙, Effect of high environmental temperature on the immunity and growth performance of sows and piglets 高溫對母豬及仔豬免疫與生長性能之影響",中國畜牧學會年會, Annual Meeting of Chinese Society of Animal Sci. PP.178-178,2009/12/13 (國內)
- ◆ 2009. Yung-Tsai Liou, Sheng-Ya Chen, Kuan-Chi Chiu, Wen-Shin Lin, Yi-Huei Liao2 ,Yong-Jhen Cai, Hau-Shiang Shia, Lih-Geeng Chen, Bor-Chun Weng* Crude banana flower extraction (CBFE) and its fractions inhibit mammary adenocarcinoma cells proliferation by down-regulating ROS production. International Symposium of Phytochemical and Functional Foods. Chiayi, Taiwan (國際)
- ◆ 2009. Sheng-Ya Chen, Yung-Tsai Liou, Wen-Shin Lin, Kuan-Chi Chiu, Yi-Huei Liao, Young-Jhen Cai, Hau-Shiang Shia, Bor-Chun Weng* Induction of nitric oxide, glucosamidase productions by β -glucans differentially affect LDL uptake of RAW264.7 macrophages and foam-cell formation. International Symposium of Phytochemical and Functional Foods. Chiayi, Taiwan (國際)
- ◆ 2009 BC Weng, YC Lin, CW Hu, SH Wang, MY Kao, DY Lo, LS kan, RYY Chiou. Toxicological and Immunomodulatory assessments of Botryosphaeran beta-glucan produced by Botryosphaeria rhodina RCYU 30101, International Symposium of Phytochemical and Functional Foods . Chiayi, Taiwan (國際)
- ◆ 2010, TT Chen, BC Weng, C Chu, W Thongna, and KL Chen. The protective effect of Ganoderma fermented products on salmonella enteritidis infection in laying hens. 14th AAAP. Pingtung, Taiwan. ROC. (國際)
- ◆ 2010, BC Weng, HT Tseng, WJ Chen, and LC Hsia. Effect of supplement dietary threonine on the immunity of weanling piglets under high and low environmental temperature. 14th AAAP. Pingtung, Taiwan, ROC. (國際)

- ◆ 2010, BC Weng, WJ Chen, and LC Hsia. Effect of density on the immune response of nursery pigs. 14th AAAP. Pingtung, Taiwan, ROC. (國際)
- ◆ 2010, NH Huang, BC Weng, RC Weng, and LC Hsia. Effect of high environmental temperature on the immunity and growth performance of sows and piglets. 14th AAAP. Pingtung, Taiwan, ROC. (國際)
- ◆ 2011. NL Ho, C Chu, BC Weng, KL Chen. The effects of Cordyceps fermented products on the production performance and the protection o Salmonella Enteritidis in laying hens. Asia Pacific Poultry Conference. Taipei, Taiwan. (國際)
- ◆ 2011. CW Kuo, CJ Hou, LG Chen, BC Weng, KL Chen. Effect of dietary hot pepper powder supplementation on the growth performace and carcass characteristics. Asia Pacific Poultry Conference. Taipei, Taiwan. (國際)
- ◆ 2012 CW Hu, BC Weng, KS Yang, CH Wu, LL Yang Anti-leukopenia and immunoregulator of selected Chinese Tonic Medicine 中華實驗動物學會中藥研究成果圓桌會議 中央科學研究院人文館第二會議室
- ◆ 2012 YJ Tsai, SH Huang, CH Chao, BBC Weng Anti-allergic activity of the Sapindaceae seed extracts (SSE) extracts (SSE) 台灣保健食品學會暨免疫與過敏研討會 高雄海洋科技大學
- ◆ 2012 SH Huang, YJ Tsai, BS Guo, ZX Zhao, RYY Chiou, BBC Weng 二苯乙烯類萃取物 arachidin-1 與 resveratrol 對過敏性呼吸道發炎小鼠模式之免疫調節功效 (Immunomodulatory effects of stilbenes arachidin-1 and resveratrol in a murine model of allergic pulmonary inflammation) 台灣保健食品學會暨免疫與過敏研討會 高雄海洋科技大學
- ◆ 2012 LP Huang, SC Chen, CL Chen, BC Weng, KL Chen Effect of dietary supplementation with compound beta-glucan in replacing antibiotics additives on the growth performance and immunity of broilers 15th Asian-Australasian Association of Animal Production Societies Congress Thailand 泰國 (國際)
- ◆ 2012 Lin SM, WC Ko, JC Chang, FL Huang, BBC Weng, SH Wang, RYY Chiou Immunity enhancement and characterization of bioactive peanut sprout powder and purified peanut arachidin-1 APRES, NC, USA (國際)
- ◆ 2012 BBC Weng*, WH Lin, CW Hu, SM Lin, JC Chang, RYY Chiou Phytoestrogenic activity of resveratrol and peanut arachidin-1 APRES, NC, USA (國際)
- ◆ 2013 方紫珣、葉采穎、袁宏德、蘇育揚、黃一修、李韻如、楊凱勛、徐泱彤、胡佳雯、翁博群 評估腹腔注射大豆異黃酮與花生多酚萃取物於 Streptozotocin 誘導高血糖小鼠之保護作用 小分子化合物結構鑑定暨功能性評估研討會，嘉義大學
- ◆ 2014 吳進益, 梁文俐, 翁博群, 蔡金川, 李飛鵬, 楊玲玲 Drug interaction with warfarin of the top hundred Chinese medicinal prescription in Taiwan 第29屆生物醫學聯合學術年會 國防醫學院
- ◆ 2014 陳瑋智, 吳明順, 吳進益, 翁博群, 李飛鵬, 吳志雄, 楊玲玲 In Vivo Hepatic and Renal Protective Capability of Ampelopsis cantonensis Extract against Oxidative Stress Induced by Carbon Tetrachloride 第29屆生物醫學聯合學術年會 國防醫學院
- ◆ 2014 元宏德, 蘇育揚, 葉采穎, 方紫珣, 徐泱彤, 楊凱勛, 翁博群 豆漿及其發酵機能飲品在高血糖小鼠模式下之降低血糖功能性評估 大豆高加價值保健食品研發研討會，嘉義大學
- ◆ 2015 Hung-De Yuan, Ying-Chen Leu, Ching-Hsein Chen, Chih-Yu Lo, Lih-Geeng Chen Being-Sun Wung, Chia-Wen Hsiea, Bor-Chun Weng The protective effects of the novel soy

yogurt product in streptozotocin-induced hyperglycemic mice 2015 BIT World Congress Diabetes, 高雄 (國際)

期刊論文 (Refereed Articles)

- ☑ 2000 Weng, B.C.^ψ, B.P. Chew, T.S. Wong, J.S. Park, H.W. Kim, and A.J. Lepine., β -carotene uptake and changes in ovarian steroids and uterine proteins during the estrous cycle in the canine., *J. Animal Sci.* 78:1284-1290. (SCI)
- ☑ 2000 Chew, B.P., J.S. Park, B.C. Weng, T.S. Wong, M.G. Hayek, and G.A. Reinhart., Dietary β -carotene absorption by blood plasma and leukocytes in domestic cats., *J. Nutrition.* 130:2322-2325. (SCI)
- ☑ 2000 Chew, B.P., J.S. Park, B.C. Weng, T.S. Wong, M.G. Hayek, and G.A. Reinhart., Dietary β -carotene is taken up by blood plasma and leukocytes in dogs., *J. Nutrition.* 130:1788-1791. (SCI)
- ☑ 2000 Chew, B.P., J.S. Park, T.S. Wong, H.W. Kim, B.B.C. Weng, K.M. Byrne, M.G. Hayek, and G.A. Reinhart., Dietary β -carotene stimulates cell-mediated and humoral immune response in dogs., *J. Nutrition.* 130: 1910-1913. (SCI)
- ☑ 2000 Kim, H.W., B.P. Chew, T.S. Wong, J.S. Park, B.C. Weng, and M.G. Hayek., Modulation of cell-mediated and humoral immunity by dietary lutein in cats, *Vet. Immunol. Immunopathol.* (SCI)
- ☑ 2000 Kim H.W., B.P. Chew, T.S. Wong, J.S. Park, B.B. Weng, K.M. Byrne, M.G. Hayek, G.A. Reinhart., Dietary lutein stimulates immune response in the canine., *Vet Immunol Immunopathol.* 73: 331-341. (SCI)
- ☑ 2001 Chew, B.P., B.C. Weng, H.W. Kim, T.S. Wong, J.S. Park, and A.J. Lepine., Uptake of β -carotene by ovarian and uterine tissues and effects on steroidogenesis during the estrous cycle in cats, *Am. J. Vet. Res.* 62: 1063-1067. (SCI)
- ☑ 2006 Chen, T.T., S.M. Tsay, C.Y. Yu, B.C. Weng, and K.L. Chen, Effect of β -glucan supplementation against *Eimeria tenella* infection and immune parameter in male Leghorn chicks, *J. Chinese Society of Animal Sci.*, 35:101-108.
- ☑ 2007 Chin, L.T., C.S. Chu, H.M. Chen, S.C. Hsu, B.C. Weng, C.H. Chu., Site-directed in vitro immunization leads to a complete human monoclonal IgG4 λ that binds specifically to the CDR2 region of CTLA-4 (CD152) without interfering the engagement of natural ligands, *BMC Biotechnology.* 23:51-63. (SCI)
- ☑ 2008, Ong, P.L., B.C. Weng, F.J. Lu, M.L. Lin, T.T. Chang, R.P. Hung, C.H. Chen., The anticancer effect of protein-extract from *Bidens alba* in human colorectal carcinoma SW480 cells via the reactive oxidative species- and glutathione depletion-dependent apoptosis., *Food and Chemical Toxicology.* 46:1535-1547. (SCI)
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USE OF STILBENES IN MODULATION OF ANIMAL IMMUNITY 邱義源，朱紀實，翁博群
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五年內研究補助與執行研究計畫：(Research financial aid and proposed project)

計畫名稱 Title of Grant Proposal	計畫內擔任之工作 Position in Project Investigation	年月 Year	補助或委託機構 Funding Institute	申請(執行)情形 Project Status
台灣常用中藥方劑與 Warfarin、Ibuprofen 之交互作用分析	協同研究人員 Project assistant investigator	2012	衛生署中醫藥委員會	核准 Granted
比較 beta-聚葡萄糖結構差異與調控巨噬細胞免疫功能特質以作為開發 Botryosphaeran 改善類風濕性自體免疫疾病症狀之科學基礎	主持人 Project Investigator	2012 2013	國科會計畫 NSC	核准 Granted
五種高病原性沙門氏菌血清型及其毒性質體對不同寄主的免疫的影響	共同主持人 Co-Project Investigator	2011 2012 2013	國科會計畫 NSC	核准 Granted
開發生產納豆酵母粉並探討其對雞、豬促進生長之機制	共同主持人 Co-Project Investigator	2012 2013	國科會計畫 NSC	核准 Granted
高異黃酮非基改大豆之高加價值產品研發	協同研究人員 Project assistant investigator	2012 2013	經濟部	核准 Granted
開發生產混合型固態醱酵飼料於豬、雞飼料最適添加量之建立	協同研究人員 Project assistant investigator	2014	行政院農業委員會	核准 Granted
芳香精油成分分析應用	共同主持人 Co-Project Investigator	2014	嘉義大學產學合作計畫	核准 Granted

研究模式與探討老化免疫生理與該疾病機轉關係	共同主持人 Co-Project Investigator	2014	署立嘉義榮民醫院	核准 Granted
小鼠白血球低下症模式下探討以β-glucan 伴隨 G-CSF 白血球恢復性治療對於敗血症併發之預防	主持人 Project Investigator	2014 2016	科技部	核准 Granted
微乳化混合精油動物飼料添加劑之調節免疫功能評估試驗	主持人 Project Investigator	2017	嘉義大學產學合作計畫	核准 Granted

期刊計畫審稿 (Journal Reviewer)

Experimental and Therapeutic Medicines 2017

國科會 102 – 105

Biomedical Report 2016, 2017

African Journal of Biotechnology 2016

Food Research International 2010, 2011, 2017

Iranian Journal of Animal Sciences 2011, 2012, 2013, 2014, 2015

Journal of Agriculture Food Chemistry 2012

International Journal of Biological Macromolecules 2015