

朱紀實 Chishih Chu, Ph.D.



教授
Professor

學歷(Academy)：

學校名稱 University	國別 Nation	主修學門系所 Major	學位 Degree	起訖年月(西元年/月) Year/month
密西根州立大學 Michigan State University	美國 USA	植物育種與遺傳 - 森林 Plant Breeding and Genetics-Forestry	博士 PhD	1986 / 9 - 1992/6
國立台灣大學 National Taiwan University	中華民國 ROC	森林研究所 Graduate Institute of Forestry	碩士 Master	1984 / 9 - 1986/6
國立中興大學 National Chung Hsing University	中華民國 ROC	森林學系 Forestry	學士 Bachelor	1978/9 - 1982/6

研究專長 (Research area)：

感染疾病 (Infectious disease)、微生物抗藥性及抗藥基因 (Antibiotic resistance mechanism and genes)、分子診斷學(Molecular Diagnostics)、分子演化學(Molecular evolution)、基因體學(Genomics)、生物感測器及生物晶片 (Biosensor and Biochips)、疫苗研發(vaccine development)

主要教學科目(Teaching Courses)：

細菌致病機制(Bacterial disease mechanism)、生物資訊(Bioinformatics)、遺傳學(Genetics)

研究方向(Current research topics)：

細菌抗藥性機制(Bacterial antibiotic resistance mechanism)、沙門氏菌致病性機制(Salmonella pathogenesis)、沙門氏菌毒性質體(Salmonella virulence plasmid)、質體傳遞機制(Plasmid conjugation)、分子演化(Molecular evolution)、遺傳及傳染疾病分子檢測(Molecular diagnostics of genetic and infectious disease)

個人經歷 (Personal Experience)：

公司/學校 Company/ University	職稱 Title	服務年限 Serving Year	專長 Specialty
國立嘉義大學 National Chiayi University			

應用微生物學系 Applied Microbiology	助理教授 Assistant Professor	2004.8-2007.7	細菌遺傳學 Bacterial genetics
微生物與免疫學系 Microbiology and Immunology	副教授 Associate Professor	2007.8 -2010.7	細菌致病機制 Bacterial disease Mechanism
微生物免疫與生物藥學系 Microbiology, Immunology, and Biopharmaceutics)	副教授 Associate Professor	2010.8-2011.7	植物組織培養 Plant tissue culture
微生物免疫與生物藥學系 Microbiology, Immunology, and Biopharmaceutics		2011.8-	人畜共通傳染病 Zoonotic Disease
生物資源系 Biological Resources	教授 Professor	2014.8-2015. •	
微生物免疫學系 Microbiology and Immunology/	系主任 Chairperson	2008.8-2010.7	
生物醫藥研究所 Graduate Institute of Biomedical and Biopharmarceutic Sciences	所長 Director	2008.8-2010.7	
中草藥與微生物利用與研發中心 Center of Herb medicine and microbial utilization and Research & Development	主任 Director	2008.8-2011.7	
微生物免疫與生物藥學系 Microbiology, Immunology, and Biopharmaceutics	系主任 Chairperson	2010.8-2011.7	
國立嘉義大學研究發展處 National Chiayi University Office of Research and Development	研發長 Dean	2011.8-2012.7	
國立嘉義大學校長特助 National Chiayi University Executive Assistant		2012.8-2013.7	
國立嘉義大學生命科學院 National Chiayi University College of Life Sciences	院長 Dean	2013.8-2018.7	
國立嘉義大學 National Chiayi University	國際副校長 Vice President for International Affair	2018.8-2020.1	
國立嘉義大學 National Chiayi University	學術副校長 Vice President for Academic Affair	2020.2-2022.1	
國立嘉義大學生物技術學程 National Chiayi University Biotechnology Program	1.委員 member 2.執行秘書 Executive secretary	2006. 8- 2008. 8-2010. 7	
國立嘉義大學生物實驗安全委員會 National Chiayi University Biosafety Committee	1.委員 Member 2. 執行秘書 Executive secretary	2006. 02- 2011. 02-2013. 7	
國立嘉義大學生物科技發展中心 National Chiayi University Biotechnology Development Center	1.執行秘書 Executive secretary 2.主任 Director 3.諮詢委員 consultant	2012/02-2013/02 2013/3 - 2017/7 2011/07-2014/7	
國立中興大學-遺傳工程中心 Genetic Engineering Center National Chung-Hsing University	博士後研究員 Postdoctor	1992.8-1993.6	植物性類病毒 Plant viroid

長庚大學-微生物免疫科 Department of Microbiology and Immunity, Chang Gung University	博士後研究員 Postdoctor	1993.8-1998.11	細菌遺傳學 Bacterial genetics
清石生技公司 Crystal Biotechnology	副研究員 Associate Researcher	1998.12-200.7	動物疫苗 Vaccine for animals
普生公司 General Biologicals Corp	副研究員 Associate Researcher	2000.12-2001.05	分子診斷 Molecular Diagnostics
五鼎生技公司 Apex Biotechnology Corp.	顧問研究員 Advisor researcher	2001.6- 2002.8	分子診斷、血糖儀 Molecular Diagnostics and Monitor for Blood glucose
鉅國投資顧問公司 Giga Venture Partners & Co.	顧問 Consultant	2002.2-2002.8	生技投資案評估 Assessment of Biotechnology investment
台灣育成中小企業開發公司 Taiwan Incubator for Small and Median Enterprise Development	協理 Assistant Vice President	2002.9-2003.3	生技投資案評估 Assessment of biotechnology investment
源一生技 Humorigin Biotechnology Corp	科研總監 Director of Scientific Research	2002.12-2004.7	人類單株抗體 Human monoclonal antibody
中國醫藥大學醫技系	兼任助理教授 Assistant Professor	2004-2008	

榮獲99年度科技部補助大專校院獎勵特殊優秀人才補助

獲 102-104 教育部大專院校實施特殊優秀人才獎勵補助

台灣微生物學會 副秘書長及基礎微生物組執行秘書

2010.12-2013.12

臺灣微生物學會理事

2013.12-

嘉義縣原住民族發展協會顧問

2013.01-2013.12

嘉義縣市中小企業榮譽指導員協進會顧問

2014,2017,2019

102、103、105、108 教育部數位學習教材與課程認證審查委員

嘉義市國立中興大學校友會 9 屆理事

2016/9-2018/9

嘉義市國立中興大學校友會 10 屆理事長

2018/9-2021/03

嘉義市國立中興大學校友會 11 屆理事長

201/04-

國立中興大學校友總會諮詢委員

108/11/17-111/11/16

嘉義市國立台灣大學 7 屆校友會常務理事

2015-2016

嘉義市國立台灣大學 8 屆校友會理事

2017-2018

嘉義市國立台灣大學 9 屆校友會理事

2019

國立嘉義大學校友總會顧問

110/1/16 - 112/1/15

第三屆財團法人我們的生命探索協會理事長

110/8-

聖馬爾定醫院 醫學倫理暨人體實驗委員會

108/02/01 -

Journal Editor

1. Journal of Microbiology, Immunology and Infection [SCI] 2016-2018

Journal reviewer

- 1. 3BioTech**
- 2. African Journal of Agricultural Research**
- 3. African Journal of Biotechnology**
- 4. African journal of Bacterial Research**
- 5. African Journal of Food Science and Technology**

6. Africa Journal of Microbiology Research
7. Antibiotics
8. American Journal of Epidemiology & Public Health
9. Annals of Clinical Microbiology and Antimicrobials
10. Annual Review & Research in Biology
11. Biodiversitas, Journal of Biological Diversity
12. Biomedical Journal
13. BioMed Research International
14. British Microbiology Research Journal
15. BMC Evolutionary Biology
16. BMC Microbiology
17. Case Report in Medicine
18. Clinical Microbiology and Infection
19. Clinical Microbiology: Open Access
20. Comparative Immunology, Microbiology & Infectious Diseases
21. Folia Microbiologica
22. Food Research International
23. Foodborne Pathogens and Disease
24. iConcept
25. Iranian Journal of Applied Animal Science
26. International Journal of Biodiversity and Conservation
27. International Journal of Medicine and Medical Sciences
28. International Journal of Microbiology
29. International Research Journal of Microbiology
30. Journal of Dairy Sciences
31. Journal of Food and Drug Analysis
32. Journal of Medical Microbiology
33. Journal of Medicine and Medical Sciences
34. Journal of Medicinal Plant Research
35. Journal of Microbiology and Antimicrobials
36. Journal of Microbiology, Immunology and Infection
37. Journal of Pediatric Infectious Diseases
38. Journal of Public Health and Epidemiology (2011/3)
39. Journal of Veterinary Medicine and Animal Health
40. Microbial Pathogenesis
41. Pathogen
42. PeerJ
43. Plos ONE
44. The Journal of Poultry Sciences
45. Transitional Biomedicine

Publication (*: correspondent author) :

A. Article

1. **Chu, C**, Hong, SF, Tsai, C, Lin, WS, Liu, TP, Ou, JT. 1999. Comparative physical and genetic maps of the virulence plasmids of *Salmonella enterica* serovars Typhimurium, Enteritidis, Choleraesuis, and Dublin. Infect Immun. 67(5): 2611- 2614. [SCI]
2. Chiu, CH, **Chu, C**, Ou, JT. 2000. Lack of evidence of an association between the carriage of virulence plasmid and the bacteremia of *Salmonella typhimurium* in humans. Microbiol Immunol. 44: 741-748. [SCI]
3. **Chu, C**, Chiu, CH, Wu, WY, Chu, CH, Liu, TP, Ou, JT. 2001. Large drug resistance virulence plasmids of clinical isolates of *Salmonella enterica* serovar Choleraesuis. Antimicrob Agents Chemother. 45: 2299-2303. [SCI]
4. **Chu, C**, Ou, JT. 2001. Phylogenetic relationship among *Salmonella* virulence plasmids. p. 223-230. In Ou, JT, Chiu, CH, Chu, C (eds.), Typhoid fever and other salmonellosis, 1st ed. Jeou Chou, Taipei, Taiwan.
5. Chiu, CH, Wu, TL, Su, LH, **Chu, C**, Chia, JH, Kuo, AJ, Chien, MS, Lin, TY. 2002. The emergence in Taiwan of fluoroquinolone resistance in *Salmonella enterica* serotype Choleraesuis. N Engl J Med.

346: 413-419. [SCI]

6. Chiu, CH, **Chu, C***, Su, LH, Wu, WY, Wu, TL. 2002. Characterization of a laboratory-derived, high-level ampicillin resistance *Salmonella typhimurium* strain that caused meningitis in an infant. *Antimicrob Agents Chemother.* 40:1604-1606. [SCI]
7. **Chu, C**, Chiu, CH, Chu, CH, Ou, JT. 2002. Nucleotide and amino acid sequence of *oriT-traM-traJ-traY-traA-traL* regions and mobilization of the virulence plasmids of *Salmonella enterica* serovars Enteritidis, Gallinarum-Pulorum, and Typhimurium. *J Bacteriol.* 184:2857-2862. [SCI]
8. Lin, TY, **Chu, C**, Chiu, CH. 2002. Lactoferrin inhibits Enterovirus 71 infections of human embryonal rhabdomyosarcoma cells in vitro. *J. Infect. Dis.* 186:1161- 1164. [SCI]
9. Su, LH, Chiu, CH, Wu, TL, **Chu, C**, Chia, JH, Kuo, AJ, Lee, CC, Sun, CF, Ou, JT. 2002. Emerging *Salmonella enterica* serovar Enteritidis isolates in Taiwan. *Microbiol. Immunol.* 46:833-840. [SCI]
10. Su, LH, Chiu, CH, **Chu, C**, Wang, MH, Chia, JH, and Wu, TL. 2003. In vivo acquisition of ceftriaxone resistance in *Salmonella enterica* serotype Anatum. *Antimicrob Agents Chemother.* 47:563-567. [SCI]
11. Su, LH, Ou, JT, Leu, HS, Chiang, PC, Chiu, YP, Chia, JH, Kuo, AJ, Chiu, CH, **Chu, C**, Wu, TL, Sun, CF, Riley, TV, Chang, BJ. 2003. Extended Epidemic of Nosocomial Urinary Tract Infections Caused by *Serratia marcescens*. *J Clin Microbiol.* 41:4726-4732. [SCI]
12. Wu, TL, Chia, JH, Su, LH, Kuo, AJ, **Chu, C**, and Chiu, CH, 2003. Dissemination of Extended-Spectrum- Lactamase-Producing *Enterobacteriaceae* in Pediatric Intensive Care Units. *J. Clin. Microbiol.* 41:4836-4838. [SCI]
13. **Chu, C**, Yu, YJ, Kong, MS, and Ou, JT. 2003. Rate of *Helicobacter pylori* infection in children and clonality of Taiwan strains. *Microbiol Immunol.* 47:813-21. [SCI]
14. Chiu, CH, Su, LH, Hong, CJ, Chen, KL, and **Chu, C**. 2004. Prevalence and antimicrobial susceptibility of serogroup D nontyphoidal *Salmonella* in a university hospital in Taiwan. *J. Clin. Microbiol.* 42:415-417. [SCI]
15. Chiu, CH, Su, LH, and **Chu, C**. 2004. *Salmonella enterica* Serotype Choleraesuis: Epidemiology, Pathogenesis, Clinical Disease, and Treatment. *Clin Microbiol Rev.* 17(2):311-22. [SCI]
16. Chiu CH, Su LH, **Chu C**, Chia JH, Wu TL, Lin TY, Lee YS, Ou JT. 2004. Isolation of *Salmonella enterica* serotype choleraesuis resistant to ceftriaxone and ciprofloxacin. *Lancet.* 363:1285-6. [SCI]
17. Lin PY, **Chu, C**. Su, LH, Huang, CT, Chang, WY, and Chiu, CH. 2004. Clinical and microbiological analysis of bloodstream Infections caused by *Chryseobacterium meningosepticum* in nonneonatal patients. *J. Clin. Microbiol.* 42:3353-3355. [SCI] [SCI]
18. Su, LH, Chiu CH, **Chu, C**, and Ou JT. 2004. The antibiotic resistance of Non-typhoid Salmonella – a global challenge. *Clin Infect. Dis* 39:546-551.[SCI]
19. Wu, TL, Ma, L, Chang, JC, Su, LH, **Chu, C**, Leu, HS, and Siu, LK. 2004, Variable resistance patterns of integron-associated multidrug-resistant *Acinetobacter baumannii* isolates in a surgical intensive care unit. *Microbial Drug Resistance.* 10:292-299. [SCI]
20. Chiu CH, Wu TL, Su LH, Liu JW, **Chu C**. 2004, Fluoroquinolone resistance in *Salmonella enterica* serotype Choleraesuis, Taiwan, 2000-2003. *Emerg Infect Dis.* 10:1674-6. [SCI]
21. Leu J, Huang CT, Chen HM, Chin LT, He CC, and **Chu C***. 2004. Evaluation of a device for self-monitoring of blood glucose. *J. Biomedical and Laboratory Science.* 16: 57-66.
22. Chiu CH, Tang T, **Chu C**, et al. 2005. The genome sequence of *Salmonella enterica* serovar Choleraesuis, a highly invasive and resistant zoonotic pathogen. *Nucleic Acid Research* 33:1-9. [SCI]
23. Su LH, Wu TL, Chia JH, **Chu C**, Kuo AJ, Chiu CH. 2005. Increasing ceftriaxone resistance in *Salmonella* isolates from a university hospital in Taiwan. *J Antimicrob Chemother.* 55:846-852. [SCI]
24. Chen XP, **Chu C**, Tsay JG. 2005 Dec. Efflux pump (*czc* operon)-mediated cadmium-resistance mechanism of *Cupriavidus metallidurans* (*Ralstonia eutrophu*) and *C. taiwanensis* (*R. taiwanensis*). *Environmental Protection* 28: 185-201 (in Chinese)
25. Chang CC, Lin YH, Chang CF, Yeh KS, Chiu CH, **Chu C**, Chien MS, Hsu YM, Tsai LS, and Chiou CS. 2005. Epidemiologic relationship between fluoroquinolone-resistant *Salmonella enterica* serovar Choleraesuis strains isolated from humans and pigs in Taiwan (1997 to 2002). *J. Clin. Microbiol.* 43: 2798-2804. [SCI]
26. **Chu C.**, Chiu CH, Su LH, Chu CH. 2005. Resistance to fluoroquinolones linked to *gyrA* and *parC* mutations and overexpression of *acrAB* efflux pump in *Salmonella enterica* serovar Choleraesuis. *Microbial Drug Resistance* 11:238-244. [SCI]
27. Chia JH, **Chu C.**, Su LH, et al., 2005. Development of a multiplex PCR and SHV melting curve mutation detection system for detection of SHV and CTX-M β -lactamase. *J Clin Microbiol*

43:4486-4491. [SCI]

28. Chen, X. P., **Chu, C.**, and Tsay, J. G.* 2005 Dec. Efflux pump (czc operon)-mediated cadmium-resistance mechanism of *Cupriavidus metallidurans* (*Ralstonia eutrophi*) and *C. taiwanensis* (*R. taiwanensis*). Environmental Protection 28: 185-201 (in Chinese)
29. Liu SY, Lin JY, **Chu C**, Su LH, Lin TY, Chiu CH.2006. Integron-associated imipenem resistance in *Acinetobacter baumannii* isolated from a regional hospital in Taiwan. Int J Antimicrob Agents. 27(1):81-84. [SCI]
30. Yu H, Wang J, Ye J, Tang P, **Chu C**, Hu S, Chiu CH. 2006. Complete nucleotide sequence of pSCV50, the virulence plasmid of *Salmonella enterica* serovar Choleraesuis SC-B67. Plasmid. 55(2):145-51. [SCI]
31. Su LH, Chen HL, Chia JH, Liu SY, **Chu C**, Wu TL, Chiu CH. 2006. Distribution of a transposon-like element carrying *bla*_{CMY-2} among *Salmonella* and other *Enterobacteriaceae*. J Antimicrob Chemother. 57(3):424-9. [SCI]
32. **Chu C**, and Chiu CH. 2006. Evolution of virulence plasmids of non-typhoidal *Salmonella* and its association with antimicrobial resistance. Microbes and Infection. 8:1931-1936 [SCI]
33. Lin PY, Chiu CH, **Chu C**, Tang P, Su LH. 2006. Invasion of murine respiratory tract epithelial cells by *Chryseobacterium meningosepticum* and identification of genes present specifically in an invasive strain. New Microbiol. 29(1):55-62. [SCI]
34. Chiu CH, Su LH, Chu CH, Wang MH, Yeh CM, Weill FX, **Chu C***. 2006. Detection of multidrug-resistant *Salmonella enterica* serotype Typhimurium Phage Types DT102, DT104, and U302 by Multiplex PCR. J. Clin Microbiol 44: 2354-2358. [SCI]
35. Chiu CH, **Chu C**, He CC, Lin TY. 2006. Protection of neonatal mice from lethal enterovirus 71 infection by maternal immunization with attenuated *Salmonella enterica* serovar Typhimurium expressing VP1 of enterovirus 71. Microbes Infect. 8(7):1671-8. [SCI]
36. Lee CH, Chia JH, **Chu C**, Wu TL, Liu JW, Su LH. 2006. In vivo selection of OmpK35-deficient mutant after cefuroxime therapy for primary liver abscess caused by *Klebsiella pneumoniae*. J. Antimicrob Chemother. 58(4):857-60. [SCI]
37. Tsay JG, **Chu C**, Chuang YH, Chen RS. 2006. Specific Detection of *Peronospora tabacina* by PCR-amplified rDNA Sequences. Plant Pathology Journal. 5:378-382. [SCI]
38. Chen WY, **Chu C**, Tsay JS, Yeuh CS, Tsay JG. 2006 Dec. Cloning and expression of anthocyanidin synthase of *Gerbera* cultivars. J. Agri. Assoc. China 7: 544-555.
39. Chen, L. S., **Chu, C.**, Liu, C. D., Chen, R. S., and Tsay, J. G. 2006. PCR-based detection and differentiation of anthracnose pathogens, *Colletotrichum gloeosporioides* and *C. truncatum*, from vegetable soybean in Taiwan. J. Phytopathol. 154: 654-662. [SCI]
40. Wu TL, Chia JH, Su LH, **Chu C**, Kuo AJ, Chiu CH. 2006. Dissemination of extended-spectrum beta-lactamase-producing *Enterobacteriaceae* in intensive care units of a medical center in Taiwan. Microbial Drug Resistance 12(3):203-9. [SCI]
41. Chiu CH, Chen HL, Kao LS, Yang CY, **Chu C**, Doublet B, Praud K, Cloeckert A. 2007. Variant *Salmonella* genomic island 1 antibiotic resistance gene clusters in *Salmonella enterica* serovar Derby isolates from humans in Taiwan. J Antimicrob Chemother. 59(2):325-6. [SCI]
42. Lee CH, **Chu C**, Liu JW, Chen YS, Chiu CJ, Su LH. 2007. Collateral damage of flomoxef therapy: in vivo development of porin deficiency and acquisition of bla_{DHA-1} leading to ertapenem resistance in a clinical isolate of *Klebsiella pneumoniae* producing CTX-M-3 and SHV-5 {beta}-lactamases. J Antimicrob Chemother. 60(2):410-3. [SCI]
43. Liu SY, Su LH, Yeh YL, **Chu C**, Lai JC, Chiu CH. 2007. Characterisation of plasmids encoding CTX-M-3 extended-spectrum beta-lactamase from Enterobacteriaceae isolated at a university hospital in Taiwan. Int J Antimicrob Agents. 29(4):440-5. [SCI]
44. Lin CL, Chiu CH, **Chu C**, Huang YC, Lin TY, Ou JT. 2007. A multiplex polymerase chain reaction method for rapid identification of *Citrobacter freundii* and *Salmonella* species, including *Salmonella* Typhi. J Microbiol Immunol Infect. 40(3):222-6. [SCI]
45. Chen KL, Chi WT, **Chu C**, Chen RS, Chiou PW. 2007. Effect of caponization and testosterone implantation on hepatic lipids and lipogenic enzymes in male chickens. Poultry Sci. 86(8):1754-9. [SCI]
46. Chin LT, **Chu C**, Chen HM, Hsu SC, Weng BC, Chu CH. 2007. Site-directed in vitro immunization leads to a complete human monoclonal IgG4λ that binds specifically to the CDR2 region of CTLA-4 (CD152) without interfering the engagement of natural ligands. BMC Biotechnol. 7(1):51 [SCI]
47. Chao MR, Hsien CH, Yeh CM, Chou SJ, **Chu C**, Su YC, Yu CY. 2007. Assessing the prevalence of

- Salmonella enterica in poultry hatcheries by using hatched eggshell membranes. Poultr Sci. 86(8):1651-5. [SCI]
48. Huang KY, Hong YW, Wang MH, Chu C, Su LH, Chiou CS, Chiu CH. 2007. Molecular epidemiology and antimicrobial susceptibility of *Salmonella enterica* serotype Stanley isolates in Taiwan. J Microbiol Immunol Infect. 40(5):411-8. [SCI]
 49. Yu CY, Chou SJ, Yeh CM, Chao MR, Huang KC, Chang YF, Chiou CS, Weill FX, Chiu CH, Chu CH, Chu C.*2008. Prevalence and characterization of multi-drug resistant (ACSSuT) *Salmonella enterica* serovar Typhimurium isolated from four gosling's farms and a hatchery farm. J Clin Microbiology 46(2):522-6. [SCI]
 50. Yu CY, Liu YW, Chou SJ, Chao MR, Weng BC, Tsay JG, Chiu CH, Wu CC, Lin TL, Chang CC, Chu C.* 2008. Genomic diversity and molecular differentiation of *Riemerella anatipestifer* associated with eight outbreaks in five farms. Avian Pathology 37(3):273-279. [SCI]
 51. Su LH, Chu C, Cloeckaert A, Chiu CH. 2008. An epidemic of plasmids? Dissemination of extended-spectrum cephalosporinases among *Salmonella* and other Enterobacteriaceae. FEMS Immunol Med Microbiol. 52(2):155-68. [SCI]
 52. Chin LT, Chu C, Chen HM, Wang DW, Liao SK. 2008. Immune intervention with monoclonal antibodies targeting CD152 (CTLA-4) for autoimmune and malignant disease. Chang Gung Med J. 30:1-15.
 53. Hong SF, Chiu CH, Chu C, Feng Y; Ou J. 2008. Complete nucleotide sequence of a virulence plasmid of *Salmonella enterica* serovar Dublin and its phylogenetic relationship to the virulence plasmids of serovars Choleraesuis, Enteritidis and Typhimurium. FEMS Microbiology Letters 282:39-43. [SCI]
 54. Chen RS, Chu C, Cheng CW, Chen WY, Tsay JG. 2008. Differentiation of two powdery mildews of sunflower (*Helianthus annuus* L.) by PCR-mediated method based on ITS sequences. Eur. J. Plant Pathol. 121:1-8. [SCI]
 55. Yu CY, Chu C., Chou SJ, Chao MR, Yeh CM, Lo DY, Su YC, Horng YM, Weng BC, Tsay JG, Huang KC. 2008. Comparison of the association of age with the infection of *Salmonella enterica* serovar Typhimurium in Pekin ducks and Roman geese. Poultr Sci. 87(8):1544-9. [SCI]
 56. Scaria J., Palaniappan RUM, Chiu D, Phan JA, Ponnala L, McDonough P, Grohn Y, Porwollik S, McClelland M, Chiou CS, Chu C, and Chang YF. 2008. Microarray for molecular typing of *Salmonella enterica* serovars. Molecular & Cellular Probes. 2008 22(4):238-43. [SCIs].
 57. Hsien CH, Chu C, Su YC, Wang CM, Yu CY. 2008. Analysis of prevalence and antimicrobial resistance of *Salmonella enterica* in poultry breeders and hatchery. 2008 J. Agri. For. (NCYU) 5:70-86. (In Chinese)
 58. Chen KL, Weng BC, Chang MT, Liao YH, Chen TT, Chu C.* 2008. Direct enhancement of the phagocytic and bactericidal capability of abdominal macrophage of chicks by β -1,3-1,6-glucan. Poultry Science 87: 2242-2249.[SCI]
 59. Chu C, Feng Y, Chien AC, Hu S, Chu CH and Chiu CH. 2008. Evolution of genes on the *Salmonella* virulence plasmid phylogeny revealed from sequencing of the virulence plasmids of *S. enterica* serotype Dublin and comparative analysis. Genomics. September. 92(5): 339-343. [SCI]
 60. Doublet B, Chu C, Chiu CH, Fan YC, Cloeckaert A. 2009. A truncated tni Module Adjacent to the Complex Integron of SGI1 in *Salmonella enterica* Serovar Virchow. Antimicrob Agents Chemother. 53(2):824-7. [SCI]
 61. Chu C, Wong DW, Wang MH, Lin HH, Chen YS, Tien N, Shih MC, Chen TH, Chiu CH. 2009. Genotyping, plasmid analysis, and antimicrobial susceptibility of *Salmonella enterica* serotype Enteritidis isolates from humans and chickens in central Taiwan. J Formos Med Assoc. 108(10):765-71. [SCI]
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B. Book

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C. Proceeding

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研討會論文(Publications in Symposium)

I. International symposium

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 118. Chen SY, Hou JN, Lu CC, **Chu C**. 2014. The influences of *Salmonella* Choleraesuis virulence plasmid on host immunity and its random mutagenesis. The 19th Conference of Bacteriology. C10. Kaoshung, August 21-23.
 119. Huang CJ, **Chu C**, Shiah TC. 2014. The cellulolytic flora from the gut of Taiwanese termite *Coptotermes formosanus*. The 19th Conference of Bacteriology. C11. Kaoshung, August 21-23.
 120. Ye YS, Phielip AA, Hsu PH, **Chu C**, Chen LG. 2014. The rhizobium;s induction of isoflavone syn thesis from soybean seeds and seedings. The 19th Conference of Bacteriology. C17. Kaoshung, August 21-23.
 121. Wang WY, Lu CC, Huang YT, Wang MH, Wang YH, **Chu C**. 2014. Cytotoxicity analysis of fluoroquinolone resistant *Streptococcus agalactiae* to human alveolar adenocarcinoma cell line A549. The 19th Conference of Bacteriology. E07. Kaoshung, August 21-23.
 122. Analysis of antimicrobial resistance and plasmid incompatibility (Inc) group in *Escherichia coli* and *Salmonella* isolates. The 19th Conference of Bacteriology. E10. Kaoshung, August 21-23.
 123. Li CY, Li YY, Wang SH, Huo TC, Yu CY, Su YC, **Chu C**. 2014. *Salmonella* genomic island in *S. Albany* from different animals. The 19th Conference of Bacteriology. E11. Kaoshung, August 21-23.
 124. Lee C, Huang Y, Liu C, Lee Z, **Chu C**. 2014. Development of carbapenem resistance with transposons insertion in gene *ompK35* and *ompK36* in clinical *Klebsiella pneumoniae* isolates. The 19th Conference of Bacteriology. E51. Kaoshung, August 21-23.
 125. Lee C, Tsai Y, Liu P, Liou R, Chang C, **Chu C**. 2014. Heavy metal tolerance in bacteria isolated from environment. BM13. P97. Annual Meeting of Taiwan Society of Microbiology. Dec. 14. Tainan.
 126. Tu P, Chen SY, **Chu C**, Huang YK. 2014. *Salmonella* serovars and its virulence plasmid influenced the formation of autophagy and inflammasome within THP-1 macrophage-like foam cells. P106. CM15. Annual Meeting of Taiwan Society of Microbiology. Dec. 14. Tainan.
 127. Ye YS, Lu CC, Wang MH, Wang YS, **Chu C**. 2014. Association of antibiotic resistance with serotypes of *Streptococcus pneumoniae* annually. CM18. p107. Annual Meeting of Taiwan Society of Microbiology. Dec. 14. Tainan.
 128. **Chu C**. 2015. The evolution and function of *Salmonella* virulence plasmid in host and associated with *Salmonella* serovars. O9. P20. Fifth National symposium on Salmonellosis and other Zoonotic Bacterial Diseases. July 11. Chiayi.
 129. Huang YT, Wanf WY, **Chu C**, Wang YS. 2015. The mechanisms for macrolide and lincosamide resistance and their transfer in *Streptococcus agalactiae* human isolates. P8. p28. Fifth National Symposium on Salmonellosis and other Zoonotic Bacterial Diseases. July 11. Chiayi.
 130. Wang SH, Chen SW, **Chu C**. 2015. The antibiotic effects on the plasmid and genomic stability on *Salmonella enterica* serovar Choleraesuis. P9. p29. Fifth National Symposium on Salmonellosis and other zoonotic Bacterial Diseases. July 11. Chiayi.
 131. Chen SY, Lee C, Tsai IA, Ye YS, **Chu C**. 2015. The effects of *Salmonella* virulence plasmids from

- different serovars on the abilities of bacterial survival and cell death in human immune cells. P10. p30. Fifth National Symposium on Salmonellosis and Other Zoonotic Bacterial Diseases. July 11. Chiayi.
132. Wang S, Liahg YC, Lee C, **Chu C**. 2015. The insertion sequences, plasmid incompatibility groups, and genotypes in clinical *Klebsiella pneumoniae*. P11. p31. Fifth National Symposium on Salmonellosis and Other Zoonotic Bacterial Diseases. July 11. Chiayi.
 133. Wang SH, Chang CW, Chen SW, **Chu C**. 2015. The antibiotic effects on the plasmid and genomic stability on *Salmonella enterica* serovar Choleraesuis. C23. p62. The 20th Conference of Bacteriology. E51. Kaoshung, August 26-28. Tainan.
 134. Wang S, Yan SJ, Liahg YC, Lee C, **Chu C**. 2015. The insertion sequences, plasmid incompatibility groups, and genotypes in clinical *Klebsiella pneumoniae*. C24. p63. The 20th Conference of Bacteriology. E51. Kaoshung, August 26-28. Tainan.
 135. Chen SY, Lee C, Tsai IA, **Chu C**. 2015. The effects of *Salmonella* virulence plasmids from different serovars on the abilities of bacterial survival and cell death in human immune cells. C25. P64. Annual Meeting of Taiwan Society of Microbiology. Oct. 17. Taipei
 136. Wang SH, Chao CW, Li CY, Kuo TC, Yu CY, Su YC, **Chu C**. 2015. The incompatibilities and conjugation of large R plasmids in different *Salmonella* serotypes. CM12, p63. Annual Meeting of Taiwan Society of Microbiology. Oct. 17. Taipei.
 137. Loh YX, **Chu C**. 2015. Association of carbapenem usage and resistance of Gram-negative bacterial species at different wards of a southern hospital. CM14. p64. Annual Meeting of Taiwan Society of Microbiology. Oct. 17. Taipei.
 138. Wang S, Yab SJ, Liahg YC, Lee C, Tsai Y, Liu C, Lee Z, **Chu C**. 2015. Conjugative plasmids differ between clinical *Klebsiella pneumoniae* and *Escherichia coli*. CM17. p66. Annual Meeting of Taiwan Society of Microbiology. Oct. 17. Taipei.
 139. **Chu C**. 2015. Change of isoflavone levels in fermented soybean. p49. The 3rd symposium on high-value soy products research and development. Nov. 25. Chiayi2018.

主辦研討會

1. 國立嘉義大學益生菌發酵及其生活應用研討會 2013. June 6-22.
2. 2013 Symposium on Structure Elucidation and Bioactivities and Applications of Small Chemicals 2013 年小分子化合物結構鑑定暨功能性評估國際研討會. 11 月 8-9 日。國立嘉義大學。
3. 國立嘉義大學生命科學院大豆高加價值產品研發研討會，2013。
4. 國立嘉義大學生命科學院大豆高加價值產品研發研討會，2014。
5. 第五屆沙門氏菌暨其他細菌性人畜共通疾病研討會，2015/07/11，國立嘉義大學。
6. 發酵培養系統及後續濃縮純化應用研討會，2015/11/13，國立嘉義大學。
7. 國立嘉義大學生命科學院大豆高加價值產品研發研討會，2015/11/25。
8. 2016 兩岸濕地聯合研討會，2016/05/13-14，國立嘉義大學。
9. 2016. The 6th International symposium in phytochemicals – Bioactivities and Disease Prevention of Phytochemicals and Natural Products for health, NCYU, Chiayi, Taiwan, Nov. 25-26
10. 2018. The 3rd international Symposium of Biodiversity and Health in Southeast Asia. NCYU. Chiayi. Taiwan. Nov, 15-18.

研討會主持人

1.	Oral presentation of Clinical Microbiology. 2013. Annual Meeting of Taiwan Society of Microbiology. Dec. 15. Taipei.
2.	主持及評審，Oral presentation of Clinical Microbiology. 2014. Annual Meeting of Taiwan Society of Microbiology. Dec. 14. Taipei.
3.	主持及評審，Oral presentation of Basic Microbiology. 2015. Annual Meeting of Taiwan Society of Microbiology. Oct. 17. Taipei.
4	Moderator of Oral session 9. 30 th International Congress of Chemotherapy and Infection 24-27 November, 2017 Taipei, Taiwan.2017.

研究計劃

項次	計畫名稱	職責	金額千元	計畫單位	年度
1.	人類 T 淋巴細胞與乳癌細胞株體外交互作用時凋亡機制的探討	協同主持人	500	國軍台中總醫院	94.1-94.12
2.	鼠傷寒沙門氏菌 Macrolide 抗藥機制研究	協同主持人	460	長庚醫院	93.10-95.8
3.	豬霍亂沙門氏菌毒性質體之演化及具重組質體之免疫反應 (NSC94-2320-B415-001)	主持人	888	國科會	94.8-95.7
4.	開發沙門氏菌多功能疫苗(I) (NSC94-2321-B-415-002)	主持人	936	國科會	94.8-95.7
5.	開發沙門氏菌多功能疫苗(II) (NSC-95-2314-B-415-002)	主持人	1,060	國科會	95.8-96.7
6.	以蛋白質體學研究 human anti-CD152 (CTLA-4)抗體細胞凋亡作用機轉	協同主持人	500	國軍台中總醫院	95.3-95.12
7.	牛場庫蠓生態與媒介病毒性疾病之研究(95 農科-13.2.1-檢 B8；95AS-13.2.1-BQ-B8)	主持人	280	農委會	95.8-95.12
8.	重大人畜共通傳染病診斷鑑定技術之研發-建立沙門氏菌噬菌體型及快速鑑別腸炎沙門氏菌、鼠傷寒沙門氏菌、雞白痢沙門氏菌及豬霍亂沙門氏菌之檢驗方法。(96 農科-14.6.1-檢 B4；96AS-14.6.1-BQ-B4)	主持人	768	農委會	96.1-96.12
9.	孵化場之沙門市桿菌疫情間控與控制策略研究。(96 農科-14.6.1-檢 B3(15)；96AS-14.6.1-BQ-B3(15))	協同主持人	600	農委會	96.1-96.12
10.	開發沙門氏菌多功能疫苗(III) (NSC96-2314-B-415-001)	主持人	923	國科會	96.8-97.7
11.	建立沙門氏菌噬菌體型及快速鑑別腸炎沙門氏菌、鼠傷寒沙門氏菌、雞白痢沙門氏菌及豬霍亂沙門氏菌之檢驗方法-(97 農科-14.6.1-檢 B4(9)；97AS-14.6.1-BQ-B4)	主持人	598	農委會	97.1-97.12
12.	草食性動物結核桿菌之監控	協同主持人	1,480	農委會	98.1-98.12
13.	新穎抗流感病毒及肺結核菌先導藥物優化開發	共同主持人	1,140	經濟部	98.7-101.6
14.	感染性脊椎炎族群之病原菌的分子鑑定、抗藥基因及致病毒力因子分析 (98-2314-B-182A-096-MY3)	共同主持人	4,420	國科會	98.8-101.7
15.	充實研究設備提升生物科技研究能量-提昇保健生技及生物醫藥之有效成分活性評估及研發(NSC98-2321-B-415-003-)	主持人	9,570	國科會	98.12-99.7
16.	葡萄糖去氫酶的電化學血糖感測系統及試片之 phase I 產學合作開發案	主持人	890	明志科大	99.8-100.5
17.	草食動物結核病、副結核病及乳房炎重要人畜共通病原菌之研究	協同主持人	1,400	農委會	99.1-99.12
18.	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 (100-2320-B-415-002-)	主持人	800	國科會	100.8-101.7
19.	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(101-2320-B-415-004-)	主持人	1,220	國科會	101.8-102.7
20.	比較beta-聚葡萄糖結構差異與调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(101-2320-B-415-005-MY2)	共同主持人	1,905	國科會	101.8-103.7
21.	高異黃酮非基改大豆之高加價值產品研發3年計畫 (101-EC-17-A-18-S1-226)-1	總主持人	6,000	經濟部	101.12-102.12
22.	五種高病原性沙門氏菌血清型及其毒性質體與寄主免疫反應在寄主專一性的機轉 NSC 102-2320-B-415 -004 -	主持人	1,000	國科會	102.8-103.7
23.	高異黃酮非基改大豆之高加價值產品研發3年計畫 (103-EC-17-A-18-S1-226)-1	總主持人	3,000	經濟部	103.1-103.12
24.	確認副結核病陰性乳羊場及降低草食動物結核病陽性場計畫	協同主持人	1,200	農委會	103.1-103.1。
25.	利用耐鹽嗜油菌與微生物富集技術強化石油碳氫化合物污染土壤之生物復育	協同主持人	1,400	環保署	103.5-103.11

26.	五種高病原性沙門氏菌血清型及其毒性質體與寄主免疫反應在寄主專一性的機轉 103-2320-B-415-002-	主持人	1,150	國科會	103.8-104.7
27.	高異黃酮非基改大豆之高加價值產品研發3年計畫(104-EC-17-A-18-S1-226)	總主持人	5,000	經濟部	104.1-105.3
28.	確認副結核病陰性乳羊場及降低草食動物結核病陽性場計畫	協同主持人	1,700	農委會	105.1-105.12
29.	利用稱為成染模式分析水禽雷氏桿菌生物膜型成能力對宿主毒力之影響	共同主持人	610	科技部	104.8-105.7
30.	沙門氏菌引起泡沫細胞自噬反應及發炎複合體變化:沙門氏菌成染主動脈瘤致病機轉的線索	共同主持人	2,200	科技部	103.8-105.7
31.	人山文海城鄉共榮計畫(學生學習生態計畫)	共同主持人	600	教育部	105.1-105.7
32.	Spinosad生產製程改良	主持人	120	三一生技服 份有限公司	104.9-105.8
33.	Spinosad生產製程改良及應用	主持人	120		105.9-106.8
34.	白樺茸有效成分萃取及機能性分析	主持人	150	聯一能源有 限公司	105.12-106.6
35.	人山文海城鄉共榮計畫-山海環教工程	協同主持人	100	教育部	105.8-106.7
36.	105學年度推動大專校院職涯輔導工作實施計畫-學生創新創業競賽與輔導暨傑出校友返校座談	主持人	150	教育部	105.9-106.6
37.	草食動物結核病陽性場防疫輔導與草食動物Q熱之監測	協同主持人	2,034	農委會	106.1-106.12
38.	草食動物結核病快速檢驗套組開發與里夫古熱疫病監測	協同主持人	1,290	農委會	106.1-106.12
39.	阿里山地區薊之萃取及機能分析	主持人	95	台灣雞角刺 有限公司	106.4-106.6
40.	2016嘉義大學第六屆國際植物化合物暨功能性評估國際研討會	主持人	200	科技部	105.9-106.1
41.	南台灣人類及魚類侵襲性B族鏈球菌之分子流行病學及細胞毒性差異分析	共同主持人	1,115	科技部	106.8-107.10
42.	毛木耳全株分級利用之高加價值產品開發	總主持人	4,900	農委會	107.3-107.12
43.	第三屆東南亞生物多樣性與健康研討會	主持人	300	科技部	107.7-107.12
44.	毛木耳全株分級利用之高加價值產品開發	總主持人	3,900	農委會	108.1-108.12
45.	輻射照射處理於農業之應用(I)	共同主持人	1,569	科技部	108.1-108.12
46.	輻射照射處理於農業之應用(II) MOST 109-NU -E-415-001 -NU	共同主持人	1,000	科技部	109.1-109.12
47.	毛木耳全株分級利用之高加價值產品開發	總主持人	2,000	農委會	109.1-109.12
48.	應用毒性質體互換及基因突變毒性質體構築對鼠傷寒沙門氏菌、腸炎沙門氏菌及豬霍亂沙門氏菌減毒疫苗 109-2320-B-415 -004	主持人	1,200	科技部	109.8-110.7
49.	產學合作計畫-開發微生物複合發酵產物(MFP)作為白肉雞生長促進劑 MOST 109-2622-B-415-002 -	共同主持人	1,000	科技部	109/11/01 ~ 110/10/31
50.	中台灣跨校整合科研產業化平台計畫 I MOST 109-2622-8-005-008 -SB2	本校主持人	2,151	科技部	109/10/1 - 110/12/31
51.	輻射誘變選育耐逆境高蛋白質及機能性大豆與根圈益生菌與高加值機能性產品開發	共同主持人	950	科技部	110/01/1 - 110/12/31

專利 (Patent) :

1. Ou, JT, Chu, C. 2001. Chicken leucocytozoon vaccine. Patent number: USA6207167
2. 金立德、朱紀實、許淑菁 2005 具有人類胚系基因構造之新穎人類抗體結構 - Taiwan Patent 094106825
3. Chishih Chu, Li-Te Chin, Shu-Ching Hsu 2006. Novel antibody structures derived from human germline sequences. US 20060240006
4. Chin, L.-T., Hsu, S.-C. and Chu, C. 2006. Aus humanen Keimbahnsequenzen gewonnene Antikörperstrukturen. (德國專利 Nr 20 2005 020 828.0)
5. Chin, L.-T., Hsu, S.-C. and Chu, C. 2007. Nieuwe uit menselijke kiemlijnsequenties gewonnen antilichaamstructuren (荷蘭專利 1029605)
6. Chu C, Tsui JC, Chin LT 2009. Apparatus for biogas production. TW 098206707.
7. Tsai WJ, Chu C, Yang CY 2010. Apparatus for measuring hb alc%. TW 098222963.
8. 毛木耳萃取物用於製備改善發炎症狀之組成物的用途 109122224

技術轉移 (Technique transfer) :

1. 朱紀實、陳立耿，2014。大豆成分分析及異黃酮萃取純化技術。
2. 朱紀實，2016。潤膚、抗 UV 及皮膚保養化妝品配方。
3. 朱紀實，2021。毛木耳多醣萃取純化及其製程技術。
4. 朱紀實，2021。富多醣之傷口癒合敷料製備技術。
5. 朱紀實、翁博群，2021。富多醣之經濟動物補給品製備技術

品種轉讓

1. 朱紀實、蔡文錫，2019。高大豆異黃酮及大豆蛋白之種豆

實驗室(本校歷屆研究生及大學生) Green color: PhD, Red color: PhD student

博士班

林恆慶、蔡怡安、林越勝

碩士班(畢業年度) Master student (Year of graduation)

- 95 級：賴瑞佳、蕭怡馨、邱芎蓉、葉佳銘、王禎佑
- 96 級：王美惠、陳姝姩
- 97 級：王諾嫻、張簡志炫、李永茹、林建良、林信宏
- 98 級：陳怡君
- 99 級：林家衛
- 100 級：侯俊男、黃珮瑜
- 101 級：杜佩君、蔡易霖、Nurwenda Novan Maulana 、蕭郁婷
- 102 級：劉全喜、郭亭君、王亭方
- 103 級：陸治政、李奇翰、蔡怡安、黃崇瑞
- 105 級：陳聖雅、顧文君
- 107 蔡琺瑜
- 108 Amalia D
- 109 陳怡安(碩四)、Rossa (碩二)、Bayan (碩二)

大學部(畢業年度) Bachelor Student (year of graduation)

- 95 級: 劉怡姩、吳攻慧、謝仲岡、龔玉萍、蔡佑安、鄭佩儀、王諾嫻

- 96 級: 陳怡璇、廖玉婷、楊筑驛、黃騰偉、林家夙、杜孟鋒、陳易聖
97 級: 林信宏、陳怡君、林瑞旻、康喬雯、范怡琴
98 級: 侯俊男、楊韋成、范隸威、徐挺傑、黃信儒、劉佩柔、吳昭昀
99 級: 杜佩君、蔡易霖、莊奕歆、王信洵、孫立庭
100 級: 王依柔、黃建富、林庭羽
101 級: 廖怡君、黃柏儒、王崇騰、陸治政、李奇翰
102 級: 林憶庭、卓晉丞、郭進權
103 級: 黃敏儀、彭嘉賓、葉盈劭
104 級: 李昭誼、王琬瑜、梁雅晴、李育瑩
105 級: 王思涵
106 級: 趙之偉
107 級: 陳家華、林嘉欣
108 級: 李雅茹、柯佳穎、黃麗雅、陳郁臻、施偉安
109 級: 黃謙、熊希倫
110 級: 張凱評、葉孟典、朱恩儀
112 級: 杜於珊、曾進賢

大專生國科會專題計畫

1. 劉怡姝。*Riemerella anatipestifer* 在鴨、鵝間感染及檢驗方法評估。計畫編號: 94-2815-C-415-008-B。 全程執行期限: 94.07.01~95.02.28。
2. 林信宏。探討不同動物及人類 Group B Streptococcus and *S. pneumoniae* 的抗藥性、抗藥性質體及其種源相關性。計畫編號: 96-2815-C415-017-B。 全程執行期限: 96.07.01~97.02.29。
3. 林睿旻。*Salmonella enterica* serovar Bareilly and *S. Braenderup* 抗藥性與抗藥質體分析與其侵入及巨噬細胞中存活能力之探討。計畫編號: 96-2815-C415-016-B。 全程執行期限: 96.07.01~97.02.2
4. 廖怡君。不同寄主的鼠傷寒沙門氏菌之 VNTR 型別種類及其誘導 RAW264.7 的免疫反應。計劃編號: 100-2815-C-415-024-B。 全程執行期限: 100.07.01~101.02.28