

A.期刊論文

1. Wang, C.H., Lo, C.F*., **Leu, J.H.**, Chou, C.M., Yeh, P. Y., Chou, H.Y., Tung, M. C., Chang, C.F., Su, M.S., and Kou, G.H. Purification and genomic analysis of baculovirus associated with white spot syndrome (WSBV) *Penaeus monodon*. *Disease of Aquatic Organisms* 1995; 23: 239-242.
2. **Leu, L.H.**, Lee, M.S., Chen, K T., Chang, G.D., Chou, C.K., and Huang. C.J. Genomic structure of carp mitogen-activated protein kinase I gene. *Biochimica et Biophysica Acta* 1996; 1203: 133-136.
3. Lo, C.F*., **Leu, J.H.**, Ho, C.H., Chen, C.H., Peng, S.E., Chen, Y.T., Chou, C.M., Yeh, P.Y., Huang, C.J., Chou, H.Y., Wang, C.H., and Kou, G.H. Detection of baculovirus associated with white spot syndrome (WSBV) in penaeid shrimps using polyemrase chain reaction. *Disease of Aquatic Organisms* 1996 25:133-141.
4. Chang, M.S., Chang, G.D., **Leu, J.H.**, Huang, F.L., Chou, C.K., Huang, C.J*., and Lo, T.B. Expression, characterization, and genomic structure of carp JAK1 kinase gene. *DNA and Cell Biology* 1996;15: 827-844.
5. **Leu, J.H.**, Chang, M.S., Chang, G.D., Chou, C.K., and Huang, C.J*. Genomic structure and sequence of the JAK1 kinase of the round-spotted Pufferfish (*Tetraodon fluviatilis*) *Biochimica et Biophysica Acta* 1997; 1395: 50-56.
6. Chang, M.S., **Leu, J.H.**, Yao, C.W., Huang, F.L., and Huang, C.J*. Genomic structure of c-fos gene of the round-spotted pufferfish, *Tetraodon nigroviridis* (Syn. *T. fluviatilis*) *Zoological Studies* 1997; 36: 159-169.
7. Yao, J.W., **Leu, J.H.**, Chin, C., Chou, C.K., and Huang, C.J*. Round-spotted pufferfish (*Tetraodon fluviatilis*) snf5 gene is oriented in a tail-to-tail manner with the set gene which encodes an inhibitor of protein phosphatase 2A. *DNA and Cell Biology* 1997;17: 69-82.
8. Chou, C.M., Lin, W.C., **Leu, J.H.**, Su, T.L., Chou, C.K., and Huang, C.J*. Isolation and identification of novel protein kinase genes from the round-spotted pufferfish (*Tetraodon fluviatilis*) genomic DNA. *Journal of Biomedical Science* 1998; 5: 127-134.
9. Yeh, M.S., Huang, C.J., **Leu, J.H.**, Lee Y.C., and Tsai I.H*. Molecular cloning and characterization of a hemolymph clottable protein from tiger shrimp (*Penaeus monodon*). *European Journal of Biochemistry*. 1999; 266(2):624-633.
10. **Leu, J.H.**, Yan, S.J., Lee, T.F., Chou, C.M., Chen, S.T., Hwang, P.P., Chou, C.K., and Huang. C. J*. Complete genomic organization and promoter analysis of the round-spotted pufferfish JAK1, JAK2, JAK3, and TYK2 Genes. *DNA and Cell Biology* 2000;19: 431-446.
11. Tsai, S.C., **Leu J.H.**, Chou, C.M., Yeh, M.S., Huang, F.L., Huang, C.J*. Genomic organization and the promoter region of the round-spotted pufferfish (*Tetraodon*

- fluviatilis*) CDC37 gene. *Biochimica et Biophysica Acta* 2000;1494(1-2):144-8.
12. Tsai M.F., Yu H.T., Tzeng H.F., **Leu J.H.**, Chou C.M, Huang C.J., Wang C.H., Lin J.Y., Kou G.H., Lo C.F*. Identification and characterization of a shrimp white spot syndrome virus (WSSV) gene that encodes a novel chimeric polypeptide of cellular-type thymidine kinase and thymidylate kinase. *Virology*. 2000; 277(1):100-10.
 13. Chen L.L., **Leu J.H.**, Huang C.J., Chou C.M., Chen S.M., Wang C.H., Lo C.F., Kou G.H. Identification of a nucleocapsid protein (VP35) gene of shrimp white spot syndrome virus and characterization of the motif important for targeting VP35 to the nuclei of transfected insect cells. *Virology*. 2002; 293(1):44-53.
 14. Feng SH, **Leu JH.** Yang CH, Fang MJ, Huang CJ, Hwang PP*. Gene expression of Na⁺-K⁺-ATPase alpha 1 and alpha 3 subunits in gills of the teleost *Oreochromis mossambicus*, adapted to different environmental salinities. *Mar Biotechnol* (NY). 2002;4(4):379-91.
 15. Sung S.C., Fan T.J., Chou C.M., **Leu J.H.**, Hsu Y.L., Chen S.T., Hsieh Y.C., Huang C.J*. Genomic structure, expression and characterization of a STAT5 homologue from pufferfish (*Tetraodon fluviatilis*). *European Journal of Biochemistry* 2003; 270(2):239-52.
 16. Tsai J.M., Wang H.C., **Leu J.H.**, Wang Andrew H.J., Kou G.H., and Lo C.F. Genomic and proteomic analysis of structural proteins of shrimp white spot syndrome virus. *Journal of Virology* 2004;78(20):11360-70.
 17. **Leu J.H.**, Tsai J.M., Wang H.C., Wang Andrew H.J., Wang C.H., Kou G.H*., and Lo C.F*. The unique stacked rings in the nucleocapsid of the WSSV virion are formed by the major structural protein VP664, the largest viral structural protein ever found. *Journal of Virology* 2005;79(1):140-9.
 18. Tsai J.M., Wang H.C., **Leu J.H.**, Wang A.H., Zhuang Y., Walker P.J., Kou G.H*., Lo C.F*. Identification of the nucleocapsid, tegument, and envelope proteins of the shrimp white spot syndrome virus virion. *Journal of Virology* 2006;80(6):3021-9.
 19. Wang H.C., Wang H.C., **Leu J.H.**, Kou G.H., Wang A.H., Lo C.F. Protein expression profiling of the shrimp cellular response to white spot syndrome virus infection. *Development and Comparative Immunology* 2007;31(7):672-86.
 20. **Leu J.H.**, Chang C.C., Wu J.L., Hsu C.W., Hirono I., Aoki T., Juan H.F., Lo C.F., Kou G.H., Huang H.C. Comparative analysis of differentially expressed genes in normal and white spot syndrome virus infected *Penaeus monodon*. *BMC Genomics* 2007;8(1):120
 21. **Leu J.H.**, Kuo Y.C., Kou G.H*., Lo C.F*. Molecular cloning and characterization of an inhibitor of apoptosis protein (IAP) from the tiger shrimp, *Penaeus monodon*. *Development and Comparative Immunology* 2008; 32(2): 121-133.

22. **Leu J.H.**, Wang H.C., Kou G.H*., Lo C.F*. *Penaeus monodon* caspase is targeted by a white spot syndrome virus anti-apoptosis protein. *Development and Comparative Immunology* 2008; 32(5): 476-486.
23. Chen W.Y., Ho K.C., **Leu J.H.**, Liu K.F., Wang H.C., Kou G.H*., Lo C.F*. WSSV infection activates STAT in shrimp. *Development and Comparative Immunology* 2008;32(10):1142-50.
24. Liu W.J., Chang Y.S., Wang H.C., **Leu J.H.**, Kou G.H*., Lo C.F*. Transactivation, dimerization, and DNA-binding activity of white spot syndrome virus immediate-early protein IE1. *Journal of Virology* 2008;82(22):11362-73.
25. Wang H.C., Wang H.C., Ko T.P., Lee Y.M., **Leu J.H.**, Ho C.H., Huang W.P., Lo C.F*., Wang A.H*. White spot syndrome virus protein ICP11: A histone-binding DNA mimic that disrupts nucleosome assembly. *Proc Natl Acad Sci USA*. 2008;105(52):20758-63.
26. Kang S.T., **Leu J.H.**, Wang H.C., Chen L.L., Kou G.H*., Lo C.F*. Polycistronic mRNAs and internal ribosome entry site elements (IRES) are widely used by white spot syndrome virus (WSSV) structural protein genes. *Virology*. 2009; 387(2):353-63.
27. **Leu J.H.***, Chen L.L., Lin Y.R., Kou G.H., Lo C.F*. Molecular mechanism of the interactions between white spot syndrome virus anti-apoptosis protein AAP-1 (WSSV449) and shrimp effector caspase. *Developmental and Comparative Immunology* 2010; 34(10):1068-74.
28. Capobianco J.A., Shih W.H., **Leu J.H.**, Lo G.C., Shih W.Y*. Label free detection of white spot syndrome virus using lead magnesium niobate-lead titanate piezoelectric microcantilever sensors. *Biosens Bioelectron*. 2010 Nov 15;26(3):964-9
29. **Leu J.H.**, Chen S.H., Wang Y.B., Chen Y.C., Su S.Y., Lin C.Y*., Ho J.M*., Lo C.F*. A Review of the Major Penaeid Shrimp EST Studies and the Construction of a Shrimp Transcriptome Database Based on the ESTs from Four Penaeid Shrimp. *Mar Biotechnol (NY)*. 2011 Aug;13(4):608-21. Review paper
30. Nupan B., Phongdara A*., Saengsakda M., **Leu J.H.**, Lo C.F. Shrimp Pm-fortilin inhibits the expression of early and late genes of white spot syndrome virus (WSSV) in an insect cell model. *Developmental and Comparative Immunology* 2011 Apr;35(4):469-75.
31. Huang W.J., **Leu J.H.**, Tsau M.T., Chen J.C., Chen L.L*. Differential expression of LvHSP60 in shrimp in response to environmental stress. *Fish and Shellfish Immunology* 2011; 30(2):576-82.
32. Lin Y.R., Hung H.C., **Leu J.H.**, Wang H.C., Kou G.H*., Lo C.F*. The role of aldehyde dehydrogenase and hsp70 in suppression of white spot syndrome virus replication at high temperature. *Journal of Virology*. 2011;85(7):3517-25.

33. Huang J.Y., Liu W.J., Wang H.C., Lee D.Y., **Leu J.H.**, Wang H.C., Tsai M.H., Kang S.T., Chen I.T., Kou G.H., Chang G.D*., Lo C.F*. *Penaeus monodon* Thioredoxin Restores the DNA Binding Activity of Oxidized White Spot Syndrome Virus IE1. *Antioxid Redox Signal*. 2012; Sep 15;17(6):914-26.
34. Huang H.T., **Leu J.H.**, Huang P.Y., Chen L.L*. A putative cell surface receptor for white spot syndrome virus is a member of a transporter superfamily. *PLoS One*. 2012;7(3):e33216.
35. **Leu J.H.***, Chen Y.C., Chen L.L., Chen K.Y., Huang H.T., Ho J.M., Lo C.F. *Litopenaeus vannamei* inhibitor of apoptosis protein 1 (LvIAP1) is essential for shrimp survival. *Developmental and Comparative Immunology*. 2012 Sep;38(1):78-87.
36. **Leu J.H.***, Lin S.J., Huang J.Y., Chen T.C., Lo C.F. A model for apoptotic interaction between white spot syndrome virus and shrimp. *Fish & Shellfish Immunology* 2013 Apr;34(4):1011-7. Review paper.
37. Huang Z.J., Kang S.T., **Leu J.H.**, Chen L.L*. Endocytic pathway is indicated for white spot syndrome virus (WSSV) entry in shrimp. *Fish & Shellfish Immunology*. 2013 Sep;35(3):707-15.
38. **Leu J.H.***, Wu M.H., Chou H.Y. A comparative study between ranavirus and megalocytivirus infections in orange-spotted grouper (*Epinephelus coioides*). *Journal of Marine Science and Technology*. 2013; 21(Suppl.):58-64.
39. Liu W.J., Shiung H.J., Lo C.F., **Leu J.H.**, Lai Y.J., Lee T.L., Huang W.T., Kou G.H., Chang Y.S*. Characterization and interactome study of white spot syndrome virus envelope protein VP11. *PLoS One*. 2014 Jan 21;9(1):e85779.
40. Huang P.Y., **Leu J.H.**, Chen L.L*. A newly identified protein complex that mediates white spot syndrome virus infection via chitin-binding protein. *Journal of General Virology*. 2014 Aug;95(Pt 8):1799-808.
41. Yang Y.T., Lee D.Y., Wang Y., Hu J.M., Li W.H., **Leu J.H.**, Chang G.D., Ke H.M., Kang S.T., Lin S.S., Kou G.H*., Lo C.F*. The genome and occlusion bodies of marine *Penaeus monodon* nudivirus (PmNV, also known as MBV and PemoNPV) suggest that it should be assigned to a new nudivirus genus that is distinct from the terrestrial nudiviruses. *BMC Genomics*. 2014 Jul 25;15:628.
42. Liu W.J., Lo C.F., Kou G.H., **Leu J.H.**, Lai Y.J., Chang L.K., Chang Y.S*. The promoter of the white spot syndrome virus immediate-early gene WSSV108 is activated by the cellular KLF transcription factor. *Developmental and Comparative Immunology*. 2015 Mar;49(1):7-18.
43. **Leu J.H.***, Liu K.F., Chen K.Y., Chen S.H., Wang Y.B., Lin C.Y., Lo C.F. The novel white spot syndrome virus-induced gene, PmERP15, encodes an ER stress-responsive protein in black tiger shrimp, *Penaeus monodon*. *Developmental and*

Comparative Immunology. 2015 Apr;49(2):239-48.

44. Tseng C.-T., **Leu J.-H.**, Cheng I.-J*. On the genetic diversity of two species of the genus *Ozobranchus* (Hirudinida; Ozobranchidae) from the Atlantic and Pacific oceans. *Journal of the Marine Biological Association of the United Kingdom*. 2017. doi:10.1017/S0025315416001958.
45. **Leu J.H.***, Tsai C.H., Tsai J.M., Yang C.H., Hsueh C.Y., Chou H.Y. Identification and expression analysis of 19 CC chemokine genes in orange-spotted grouper (*Epinephelus coioides*). *Developmental and Comparative Immunology*. 2019 Aug;97:1-10.
46. Kao Z.N, Liu C.H., Liu W.J., Kumar R., **Leu J.H.**, Wang H.C*. Shrimp SIRT1 activates of the WSSV IE1 promoter independently of the NF-κB binding site. *Fish & Shellfish Immunology*. 2020 Nov;106:910-919.
47. **Leu J.H***, Tsai C.H., Yang C.H., Chou H.Y., Wang H.C. Identification and characterization of L-amino acid oxidase 2 gene in orange-spotted grouper (*Epinephelus coioides*). *Developmental and Comparative Immunology*. 2021; 120:104058.
48. Huang P.Y., Huang Y.H., **Leu J.H.**, Chen L.L*. Feasibility study on the use of fly maggots (*Musca domestica*) as carriers to inhibit shrimp white spot syndrome. *Life (Basel)*. 2021 Aug 11;11(8):818. doi: 10.3390/life11080818.

B. 研討會論文

1. **Leu J.H.**, Tsai J.M., Wang H.C., Wang Andrew H.J., Wang C.H., Kou G.H., and Lo C.F. “VP664, the largest viral structural protein ever found, is the major nucleocapsid protein of WSSV” in 7th Asian Fisheries Forum 04. (30 November-4 December 2004). Penang, Malaysia. Oral presentation.
2. **Leu J.H.**, Kou G.H., Lo C.F.. “Molecular cloning and characterization of an inhibitor of apoptosis (IAP) gene from the tiger shrimp, *Penaeus monodon*” in 6th Symposium on Diseases in Asian Aquaculture (DAA VI), Aquatic animal health: facing new challenges (25-28 October 2005). Colombo, Sri Lanka. Oral presentation.
3. **Leu J.H.**, Wang H.C., Kou G.H., Lo C.F. “White spot syndrome virus anti-apoptosis protein WSSV449 is a direct caspase inhibitor” in 7th symposium on Diseases in Asian Aquaculture (DAA VII) (22-26 June 2008). Taipei, Taiwan. Poster presentation.
4. **Leu J.H.**, Kou G.H., Lo C.F. “Expression, purification, and functional analysis of the anti-apoptosis protein WSSV449 from the white spot syndrome virus” in ASIA-PACIFIC AQUACULTURE 2009 (3-6 November 2009). Kuala Lumpur,

Malaysia. Oral presentation.

5. **Leu J.H.**, Chen K.Y., Huang H.T. “Cloning, expression analysis, and silencing study of three inhibitor of apoptosis protein genes (IAP) from *Litopenaeus vannamei* shrimp” in 8th Symposium on Diseases in Asian Aquaculture (DAA VIII, 21 - 25 November 2011). Mangalore, India. Oral presentation.
6. **Leu J.H.**, Chen K.Y., Lai J.H. “Identification of hematopoiesis-related genes in *Litopenaeus vannamei*” in 12th Congress of International Society of Developmental and Comparative Immunology (ISDCI, 9-13 July 2012). Fukuoka city, Japan. Oral presentation.
7. Wu M. H., **Leu J. H.**, Chou H. Y. “A comparative study between ranavirus and megalocytivirus infections in orange-spotted grouper (*Epinephelus coioides*)” in 9th East China Sea Conference: International Conference on the Marine Biodiversity and Environmental Fisheries Science of the East China Sea (29 Sep - 1 Oct 2013). Keelung, Taiwan. Poster presentation.
8. Lee M. F., Huang J. D., **Leu J. H.**, Lee S. Y., Liu S. M. “The structure of the accessory nidamental gland of pharaoh cuttlefish (*Sepia pharaonis*) and isolation of the symbiotic bacteria” in 2017 Annual Congress of the Fisheries Society of Taiwan (17 Jan 2017). Keelung, Taiwan. Poster presentation.
9. Lee M. F., Huang J. D., Lee S. Y., **Leu J. H.**, Liu S. M. “The isolation of the symbiotic bacteria from the accessory nidamental glands and eggs of the pharaoh cuttlefish, *Sepia pharaonis* (Cephalopoda: Sepiidae)” in 2017 9th ASME (Asian Symposium on Microbial Ecology; 26-28 April). Busan, Korea. Poster presentation.
10. Lee M. F., Huang J. D., **Leu J. H.**, Lee S. Y., Liu S. M. “Isolation of the Symbiotic Bacteria from the Accessory Nidamental Glands and the Egg cases of the Pharaoh Cuttlefish, *Sepia pharaonis* (Cephalopoda: Sepiidae)” in 2017 The Annual Meeting of Taiwan Society of Microbial Ecology (TSME) (8 Sep 2017). Taichung, Taiwan. Poster presentation.
11. 呂健宏、蔡志明、周信佑。點帶石斑魚 19 個 CC 趨化素基因之鑑定與基因表現分析。第八屆海峽兩岸魚類生理與養殖研討會。2017 年 10 月 22-25 日。廈門，中國。
12. **Leu J.H.***, Tsai J.M., Chou H.Y. “Identification and expression analysis of 19 CC chemokine genes in orange-spotted grouper *Epinephelus coioides*” in 2018 Annual Congress of the Fisheries Society of Taiwan (19 Jan 2018). Kaohsiung, Taiwan. Oral presentation.
13. **Leu J.H.***, Tsai J.M., Chou H.Y. “Identification and expression analysis of 19 CC chemokine genes in orange-spotted grouper *Epinephelus coioides*” in Asian-Pacific Aquaculture 2018 (APA18; 23 – 26 April). Taipei, Taiwan. Oral presentation.

14. **Leu J.H.***, Tsai C.H., Chou H.Y. “Molecular cloning and activity assay of L-amino acid oxidase from orange-spotted grouper, *Epinephelus coioides*” in 2019 Annual Congress of the Fisheries Society of Taiwan (12 Jan 2019). Taipei, Taiwan. Oral presentation.
15. **Leu J.H.***, Yang C.H., Chou H.Y. “Identification and expression analysis of grouper iridovirus-induced CC chemokine genes in *Epinephelus coioides*” in 2020 Annual Congress of the Fisheries Society of Taiwan (11-16 May). Taiwan. Oral presentation (Webinar).
16. **Leu J.H.***, Yang C.H., Chou H.Y. “Identification and expression analysis of grouper iridovirus-induced CC chemokine genes in *Epinephelus coioides*” in (VIRTUAL) International Conference on Marine Science & Aquaculture 2020 (vICOMSA, 09-10 Dec). Malaysia. Oral presentation (Webinar).
17. **Leu J.H.***, Tsai C.H., Chou H.Y. “Cloning, expression analysis, and functional assay of L-amino acid oxidase 2 gene in orange-spotted grouper (*Epinephelus coioides*)” in 2022 Annual Congress of the Fisheries Society of Taiwan (22 Jan 2022). Chiayi, Taiwan. Oral presentation.
18. **Leu J.H.***, Tsai C.H., Chou H.Y. “Cloning, expression analysis, and functional assay of L-amino acid oxidase 2 gene in orange-spotted grouper (*Epinephelus coioides*)” in the Virtual 13th Asian Fisheries and Aquaculture Forum (13th AFAF) (31 May - 02 June, 2022). Tainan, Taiwan. Oral presentation (Webinar).

C. 專書

1. **Leu J.H.**, Tsai J.M., Lo C.F. **White spot syndrome virus**. Encyclopedia of Virology, third Edition. Elsevier 2008.
2. **Leu J.H.**, Yang F., Zhang X., Xu X., Kou G.H., Lo C.F. **Lesser Known Big DNA Viruses: Whispovirus**. Current Topics in Microbiology and Immunology 328 (edited by James L. Van Etten) p197-227. Springer-Verlag Berlin Heidelberg 2009.
3. Wang, H. C., Chiang, Y. A., Ng, T. H., Wang, H. C., Chen, L. L., **Leu, J. H.**, Lo, C. F. **Science to the rescue: interventions that help shrimp in the arms race against white spot syndrome virus (WSSV)**. In: Progress of shrimp and prawn aquaculture in the world (Liao, I. C., Chao, N. H., Leaña, E. M. eds). National Taiwan Ocean University, the Fisheries Society of Taiwan, Asian Fisheries Society, and World Aquaculture Society. pp. 317-336. ISBN: 978-986-04-7656-9. 2016.