

PERSONAL DATA

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Affiliation: Department of Life Sciences, National Cheng Kung University, Tainan, Taiwan.



EDUCATION & EXPERIENCES

Experience:

2021.08-present	Professor	National Cheng Kung University, Tainan, Taiwan
2021.08-present	Adjunct Professor	National Sun Yat-sen University, Kaohsiung, Taiwan
2015.08-2021.07	Associate Professor	National Cheng Kung University, Tainan, Taiwan
2009.08-2015.07	Assistant Professor	National Cheng Kung University, Tainan, Taiwan
2008.06-2008.10	Post-Doc. Fellow	Max Planck Institute of Biochemistry, Munich, Germany

Academic education:

2002.08-2008.06	<i>Dr.rer.nat.</i>	Ludwig-Maximilians-University Munich, Munich, Germany
1994.09-1997.01	M.S.	National Taiwan University, Taipei, Taiwan
1990.09-1994.06	B.S.	National Cheng Kung University, Tainan, Taiwan

RESEARCH INTERESTS

1. Gene knockout mice
2. Molecular developmental biology
3. Cell biology
4. Cytoskeleton dynamics
5. Skeletal muscle development and regulation

AWARDS AND HONORS:

- 2023.05 Marine Conservation Model Contribution Award. Ocean Affairs Council. Taiwan.
- 2021.09 Excellence in Innovative Teaching and Excellence in University Social Responsibility Teaching Award, National Cheng Kung University.
- 2015.09 Outstanding Teaching Excellence Award, National Cheng Kung University.
- 2012.09 Excellent Mentors Award, National Cheng Kung University.

PUBLICATIONS

1. Nguyen, N.U.N.*, C.C. Hsu, S.R. Ali and **H.V. Wang***. (2024.09). Actin-organizing Protein Palladin Modulates C2C12 Cell Fate Determination. *Biochemistry and Biophysics Reports*, 39, 101762. <https://doi.org/10.1016/j.bbrep.2024.101762>. (*: equally contributed, corresponding author)
2. Cheng J.O., P.L. Wang, L.C. Chou, C.W. Chang, **H.V. Wang**, W.C. Yang, F.C. Ko*. (2024.04). Investigation of organic contaminants in the blubber of a blue whale (*Balaenoptera musculus*) first stranded on the coast of Taiwan. *Environ. Sci. Pollut. Res.* 31 (16), 23638-23646. <https://doi.org/10.1007/s11356-024-32647-w>.
3. Liu T.-Y., M.W. Hughes, **H.V. Wang**, W.C. Yang, C.M. Chuong*, P. Wu* (2023). Molecular and cellular characterization of avian reticulate scales implies the evo-devo novelty of skin appendages in foot sole. *J. Dev. Biol.* 11(3), 30; <https://doi.org/10.3390/jdb11030030>.
4. Su C.Y., T.Y. Liu, **H.V. Wang***, W.C. Yang *. (2023). Histopathological study on collagen in full-thickness wound healing in Fraser's dolphins (*Lagenodelphis hosei*). *Animals*, 13(10), 1681; <https://doi.org/10.3390/ani13101681>. (*: equally contributed))
5. Su C.Y., **H.V. Wang**, M.W. Hughes, T.Y. Liu, C.M. Chuong and W. C. Yang*. (2022). Successful repigmentation of full-thickness wound healing in Fraser's dolphins (*Lagenodelphis hosei*). *Animals*, 12(12), 1482. <https://doi.org/10.3390/ani12121482>.
6. Su C.Y., M.W. Hughes, T.Y. Liu, C.M. Chuong, **H.V. Wang*** and W. C. Yang*. (2022). Defining Wound Healing Progression in Cetacean Skin: Characteristics of Full-Thickness Wound Healing in Fraser's Dolphins (*Lagenodelphis hosei*). *Animals*, 12(5), 537. <https://doi.org/10.3390/ani12050537> (*: equally contributed)
7. Ouali B.E.F. and **H.V. Wang**. (2021). Beta-agonist drugs modulate the proliferation and differentiation of skeletal muscle cells in vitro. *Biochemistry and Biophysics Reports*, 26, 101019 <https://doi.org/10.1016/j.bbrep.2021.101019>. (corresponding author)
8. Ouali B.E.F., T.-H.i Chiou, J.W. Chen, I.C. Lin, C.C. Liu, Y.C. Chiang, T.S. Ho and **H.V. Wang**. (2021). Correlation Between Pathogenic Determinants Associated with Clinically Isolated Non-Typhoidal *Salmonella*. *Pathogens*, 10(1):74. (corresponding author)
9. Ouali B.E.F., T.Y. Liu, C.Y. Lu, P.Y. Cheng, C.L. Huang, C.C. Li, Y.C. Chiang and **H.V. Wang**. (2020). Cloning and promoter analysis of palladin 90-kDa, 140-kDa, and 200-kDa isoforms involved in skeletal muscle cell maturation. *BMC Res Notes*. 13(1):321-328. (corresponding author)
10. Vu T.D., Y. Iwasaki, S. Shigenobu, A. Maruko, K. Oshima, E. Iioka, C.L. Huang, T. Abe, S. Tamaki, Y.W. Lin, C.K. Chen, M.Y. Lu, M. Hojo, **H.V. Wang**, S.F. Tzeng,

- H.J. Huang, A. Kanai, T. Gojobori, T.Y. Chiang, H.S. Sun, W.H. Li and N. Okada. (2020). Behavioral and brain- transcriptomic synchronization between the two opponents of a fighting pair of the fish *Betta splendens*. *PLoS Genet.* doi: 10.1371/journal.pgen.1008831.
11. Lin, C.W., L.Y. Huang, C.L. Huang, Y.C. Wang, P.H. Lai, **H.V. Wang**, W.C. Chang, T.Y. Chiang and H.J. Huang. (2017). Common Stress Transcriptome Analysis Reveals Functional and Genomic Architecture Differences Between Early and Delayed Response Genes. *Plant Cell Physiol.* doi: 10.1093/pcp/pcx002.
 12. Reshi, L., **H.V. Wang**, C.F. Hui, Y.C. Su and J.R. Hong. (2017). Anti-apoptotic genes *Bcl-2* and *Bcl-xL* overexpression can block iridovirus serine/threonine kinase-induced Bax/mitochondria-mediated cell death in GF-1 cells. *Fish Shellfish Immunol.* 61:120-129.
 13. Huang, C.C.*, T.W. Hsu*, **H.V. Wang***, Z. H. Liu, Y.Y. Chen, C.T. Chiu, C.L. Huang, K.H. Hung and T.Y. Chiang. (2016). Multilocus Analyses Reveal Postglacial Demographic Shrinkage of *Juniperus morrisonicola* (Cupressaceae), a Dominant Alpine Species in Taiwan. *PLOS ONE.* 11(8):e0161713. doi: 10.1371/journal.pone.0161713. (*: equally contributed)
 14. Reshi, L., J.L. Wu, H.C. Wu, **H.V. Wang** and J.R. Hong. (2016). GSIV serine/threonine kinase can induce apoptotic cell death via *p53* and pro-apoptotic gene *Bax* upregulation in fish cells. *Apoptosis.* 21(4):443-58. doi: 10.1007/s10495-016-1219-4
 15. Reshi, L., J.L. Wu, **H.V. Wang** and J.R. Hong. (2016). Aquatic viruses induce host cell death pathways and its application. *Virus Res.* 211:133-144. doi: 10.1016/j.virusres.2015.10.018.
 16. Tsai, C.C.*, H.C. Shih*, **H.V. Wang***, Y.S. Lin, C.H. Chang, Y.C. Chiang and C.H. Chou. (2015). RNA-Seq SSRs of Moth Orchid and Screening for Molecular Markers across Genus *Phalaenopsis* (Orchidaceae). *PLOS ONE.* 10(11):e0141761. doi: 10.1371/journal.pone.0141761. (*: equally contributed)
 17. Tsai, C.C.*, C.H. Chou*, **H.V. Wang***, Y.Z. Ko, T.Y. Chiang TY and Y.C. Chiang. (2015). Biogeography of the *Phalaenopsis amabilis* species complex inferred from nuclear and plastid DNAs. *BMC Plant Biol.* 15:202. doi: 10.1186/s12870-015-0560-z (*: equally contributed)
 18. Nguyen, N.U.N. and **H.V. Wang.** (2015). Dual roles of palladin protein in *in vitro* myogenesis: inhibition of early induction but promotion of myotube maturation. *PLOS ONE.* 10(4):e0124762. doi: 10.1371/ journal.pone.0124762. (corresponding author)
 19. Nguyen, N.U.N., V. R. Liang and **H.V. Wang.** (2014). Actin-associated protein palladin is required for migration behavior and differentiation potential of C2C12 myoblast cells. *Biochem Biophys Res Commun.* 452:782-733. (corresponding

author)

20. Reshi, M. L., J. L. Wu, **H.V. Wang** and J. R. Hong. (2014). RNA interference technology used for the study of aquatic virus infections. *Fish Shellfish Immunol.* 40:14-23.
21. Moser, M., M. Bauer, S. Schmid, R. Ruppert, S. Schmidt, M. Sixt, **H.V. Wang**, M. Sperandio and R. Fässler. (2009). Kindlin-3 is required for β 2 integrin-mediated leukocyte adhesion to endothelial cells. *Nat Med.* 15: 300-305.
22. **Wang, H.V.** and M. Moser. (2008). Comparative expression analysis of the murine palladin isoforms. *Dev Dyn.* 237: 3342-3351.
23. **Wang, H.V.**, L.W. Chang, K. Brixius, S. A. Wickström, E. Montanez, I. Thievessen, M. Schwander, U. Müller, W. Bloch, U. Mayer, and R. Fässler. (2008). Integrin-linked kinase stabilizes myotendinous junctions and protects muscle from stress-induced damage. *J Cell Biol.* 180: 1037-1049.
24. Ussar, S., **H.V. Wang**, S. Linder, R. Fässler, and M. Moser. (2006). The Kindlins: Subcellular localization and expression during murine development. *Exp Cell Res.* 312: 3142-3151.
25. **Wang, H.V.**, K. Vaupel, R. Buettner, A. K. Bosserhoff, and M. Moser. (2004). Identification and embryonic expression of a new AP-2 transcription factor, AP-2 ϵ . *Dev Dyn.* 231: 129-135.