



Personal curriculum vitae

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Educational background

Ph.D.: Institute of Biotechnology, National Cheng Kung University 2003~2011

M.S.: Institute of Marine Biotechnology, National Taiwan Ocean University 1995.8~1997.6

B.S.; Department of Aquaculture, National Taiwan Ocean University 1992.8~1995.6

Current position

2015.5~Present Postdoctoral research fellow, Center of excellence for the Oceans

Professional positions and employment

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| 2012.8~2015.4 | Postdoctoral research fellow, Department of Biological Science and Technology, National Chiao Tung University, Hsinchu, TAIWAN
(Advisor: Ru-Chih Chow Huang) |
| 2012.11~2012.12 | Visiting scientist, Department of Biology, Johns Hopkins University, Baltimore, MD. USA |
| 2011.11~2012.7 | Postdoctoral fellow, Institute of Biotechnology, National Cheng Kung University, Tainan, TAIWAN |
| 2011.10~2011.11 | Visiting Postdoctoral fellow, Department of Biological Science and Technology, National Chiao Tung University, Hsinchu, TAIWAN. |
| 2003.8~2011.7 | Research assistant, Institute of biotechnology, National Cheng Kung University, Tainan, TAIWAN |
| 2003.2~2003.7 | Research assistant, Department of molecular medicine, Buddhist Tzu-Chi General Hospital, Hualien, TAIWAN |
| 2002.7~2003.1 | Research assistant, Department of Microbiology and Immunology Taipei Medical University Taipei, TAIWAN |
| 1999.7~2002.6 | Sales specialist Invitrogen Taiwan Limited, Taipei, TAIWAN |
| 1997.10~1999.6 | Assistant research scientist, Division of Drugs Development Development Center for Biotechnology (DCB) Taipei, TAIWAN |

Honors and awards

2010 Second place for the best student poster presentation, Symposium on Biotechnology Development in Taiwan

2008 Gold medal for the contest of biotechnology research and creative application in the Industrial Development Bureau of the Ministry of Economic Affairs of Taiwan

(2008 經濟部工業局應用王－生物技術研發成果創意應用競賽 金牌獎組員)

Expertise and technology

Screening of antigens by Proteomics

Vaccinology and immunology

Development of aquatic vaccine

Bacteriology

Molecular biology

Bioinformatics

Animal trial

Project writing

Protein engineering

Biosensor with nanoparticles

Production of small proteins and peptides using rop expression system

Publication

1. **LP Ho**, JHY Lin, HC Liu, HE Chen, TY Chen, HL Yang. Identification of antigens for the development of a subunit vaccine against *Photobacterium damsela* ssp. *piscicida*. Fish & Shellfish Immunology. 2011 30:412-9. (IF: 3.322, 5/46=10.8% in fisheries, 8/192=4% in marine & freshwater biology and 4/145=2.7% in veterinary sciences, SCI).
2. YL Lin, LY Chen, CH Chen, YK Liu, WT Hsu, **LP Ho**, KW Liao. A Soybean Oil-Based Liposome-Polymer Transfection Complex as a Co-delivery System for DNA and Subunit Vaccine. Journal of Nanomaterials, Volume 2012, Article ID: 427306, 12 pages (IF: 1.376, SCI).
3. CM Lin, YL Lin, NM Tsai, HY Wu, SY Ho, CH Chen, YK Liu, YH Chiu, **LP Ho**, RP Lee and KW Liao. The Inhibitory Effects of Chloroform Extracts Derived from *Corbicula fluminea* on the Release of Pro-inflammatory Cytokines. Journal of Agricultural and Food Chemistry 2012 Apr 25;60(16):4076-82. doi: 10.1021/jf2051202. Epub 2012 Apr 17. (IF: 2.823, SCI)
4. **LP Ho**, CJ Chang, HC Liu, HL Yang, JHY Lin. Evaluating the protective efficacy of antigen combinations against *Photobacterium damsela* ssp. *piscicida* infections in *Rachycentron canadum* (L.).2014, Journal of Fish Diseases (IF: 2.0, JFD-1424, 13/50 in Fisheries; 13/145 in Veterinary Sciences; 32/97 in Marine & Freshwater Biology, SCI).
5. Chu HL, Cheng TM, Chen HW, Chou FH, Chang YC, Lin HY, Liu SY, Liang YC, Hsu MH, Wu DS, Li HY, **Ho LP**, Wu PC, Chen FR, Chen GS, Shieh DB, Chang CS, Su CH, Yao Z, Chang CC. Synthesis of Apolipoprotein B Lipoparticles to Deliver Hydrophobic/Amphiphilic Materials. ACS Applied Materials & Interfaces. 2013 Aug

14;5(15):7509-16.

6. Chu H.-L., Chen T.-H., Wu C.-Y., Yang Y.-C., Tseng S.-H., Cheng T.-M., **Ho L.-P.**, Tsai L.-Y., Li H.-Y., Chang C.-S., Chang C.-C.* (2014) Thermal stability and folding kinetics analysis of disordered protein securin. *Journal of Thermal Analysis and Calorimetry*, **115**, 2171-2178 (SCI, IF : 1.982, Ranking 37/75)
7. Chu H.-L., Chen H.-W., Tseng S.-H., Hsu M.-H., **Ho L.-P.**, Chou F.-H., Li H.-Y., Chang Y.-C., Chen P.-H., Tsai L.-Y., Chou C.-C., Chen J. S., Cheng T.-M*, Chang C.-C.* (2014) Development of a growth hormone conjugated nanodiamond complex for cancer therapy. *ChemMedChem* 9(5):1023-9 (SCI, IF 2.895, Rank 86/261)

Thesis

1. **Master thesis: Study the substrate specificity of *Candida rugosa* lipase by swapping lid domain and molecular cloning of cold-induced gene by differential display 1997**
2. **PhD dissertation: Development of bacterial subunit vaccine for cobia (*Rachycentron canadum*) against *Photobacterium damsela* ssp. *piscicida* by reverse vaccinology, 2011**

Conference papers

1. LP Ho, KW Liao, YS Chen, SF Liao, JC Cheng, YS Hsu, Screening of microbial metabolites with inhibitory activity against transcription factor NF-kB activation. 2002 The 36th Annual Meeting of The Chinese Society of Microbiology (oral presentation)
2. LP Ho, JHY Lin, HE Chen, WY Hsu and HL Yang, Use of proteomics for the rapid identification of novel immunogens of *Photobacterium damseale* subsp. *piscicida*. 2004 International Conference of Advanced Biotechnology-Dialogue between Proteomics and Biotechnology, Tainan, Taiwan
3. LP Ho, HY Lin and HL Yang, Use of reverse vaccinology for the identification of novel immunogens of *Photobacterium damseale* subsp. *piscicida*. The 2005 Annual Conference of the Fisheries Society of Taiwan, Pingtung, Taiwan, Abs. #BPN-02.
4. LP Ho, HY Lin, HC Liu and HL Yang, The Identification of potent immunogens from *Photobacterium damseale* subsp. *piscicida* by using proteomics. 2006 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan
5. LP Ho, JHY Lin, HC Lin, HE Chen and HL Yang, Screening novel protective antigens of *Photobacterium damseale* subsp. *piscicida* by using reverse vaccinology approach. The 2007 Annual Conference of the Fisheries Society of Taiwan, Kaohsiung, Taiwan, Abs. BPN#02
6. LP Ho, HY Lin and HL Yang Evaluation of immunogenicity of potent antigens from *Photobacterium damseale* subsp. *piscicida*, 2007 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan
7. LP Ho, JHY Lin, HC Lin, HE Chen and HL Yang, Screening novel antigen candidates in *Photobacterium damseale* subsp. *piscicida*. 2008 The 7th Symposium on Diseases in Asian Aquaculture, Taipei, Taiwan, Abs. PB#148
8. LP Ho, JHY Lin, HC Liu, HE Chen and HL Yang, Screening novel protective antigens of

Photobacterium damsela subsp. *piscicida* by using reverse vaccinology approach. 2008 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan

9. LP Ho, HY Lin, HC Liu and HL Yang, Screening, identification and characterization of protective antigens from *Photobacterium damsela* subsp. *piscicida* for cobia. 2009 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan
10. LP Ho, JHY Lin, HC Lin, HE Chen, TY Chen and HL Yang, Isolation and evaluation of immune-reactive antigens of *Photobacterium damsela* ssp. *piscicida*, 2009, The 14th EAFP international conference, Prague, Czech Republic, Abs. P-092
11. LP Ho, J HY Lin, HC Liu, HE Chen, TY Chen, HL Yang, Isolation and evaluation of immune-reactive antigens of *Photobacterium damsela* ssp. *piscicida*. 2010 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan
12. LP Ho, JHY Lin, HC Lin, HE Chen, TY Chen and HL Yang, Isolation and evaluation of immune-reactive antigens for the development of subunit vaccine against *Photobacterium damsela* ssp. *piscicida*, The 2010 Annual Conference of the fisheries Society of Taiwan, Keelung, Taiwan, Abs. FO-09 (oral presentation)
13. LP Ho, J HY Lin, CJ Chang, HC Liu, TY Chen, HL Yang, The evaluation of effect with combination of protective antigens against *Photobacterium damsela* ssp. *piscicida*. 2011 Symposium on Biotechnology Development in Taiwan, Tainan, Taiwan
14. DS Wu, HL Chu, Hung Chuang, YN Lu, LP Ho, HY Li, MH Hsu, CC Chang, Development of a Detection Platform based on Functionalized Nanodiamond Fluorescence and its use in the analysis of the p53 promoter The American Physics Society March Meeting 2014 Denver, Colorado, USA