

Curriculum vitae

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Degree

BS, Chung-Shih University, Taiwan (1973 ~ 1977)
MS, Chung-Shih University, Taiwan (1977 ~ 1979)
Associate researcher, Industrial Technology Research Institute (ITRI), Shinchu, Taiwan (1981 ~ 1987)
PhD, University of Maryland at Baltimore (USA) (1987 ~ 1993)
Post-doctor, Veteran Hospital & UMAB (USA) (1993 ~ 1994)
Associate Professor, Kaohsiung Medical University (1994 ~ 2001)
Head of Molecular Biology Lab, Kaohsiung Medical University Hospital (2001 ~ 2006)
Acting chair, Dept of Biochem., Kaohsiung Medical University (2003/08 ~2004/01; 2004/08 ~2005/01)
Head of Academic affairs of R&D, Kaohsiung Medical University (2008 ~2009)

Present position

Professor, Dept. of Biochem., Kaohsiung Medical University (2001, Aug. ~)
Joint professor, Dept. of Biological Science, Sun Yat-Sen University (2009, Aug. ~)

Specialty

Molecular biology, Cell biology, Microbial genetics,
Cell cycle spindle checkpoints, Genome-Wide new gene search,
Protein-protein interaction, brain tumors, neuron degenerative diseases

Ongoing projects:

1. Characterization and functional analysis of AIBp mediates both Aurora kinase A and Polo-like kinase 1 in cell cycle progressing 101-2320-B-037-036-MY3 (NSC: 08/01/2012-7/31/2015)
2. Functional analysis of GSKIP and other GSK3 binding proteins involved in regulation of Alzheimer ' s disease. (NSC: 10/01/2010-09/30/2012)
3. The Interactions with Phosphorylation of hNinein, Astrin and CENP-E in Centrosome/Spindle

Function. (NHRI:01/01/2009-12/31/2011)

4. Molecular characterization of a naturally occurring GSK3beta interaction protein, GSKIP functions as a negative regulator in GSK3beta signaling pathway----to reveal the endogenous functions of GSKIP. (NSC: 08/01/2010-07/31/2012)
5. Early signaling events involved in the entry of *Orientia tsutsugamushi* into mammalian cells. (NSC: 12/01/2008-11/30/2011)

Brief summary of lab results:

In the past several years, my lab uses human glycogen synthesis kinase 3 β as a bait in the yeast two-hybrid system, and we have explored many GSK3 β interaction proteins, such as dynamin-like protein, human ninein (**hNinein**), CGI-99, CABYR variants and one novel protein, GSK3 β interaction protein (GSKIP), Astrin, AIBP (Chen, Hwang, et al., 2000; Chen, Howng, et al., 2000; Hong, et al., 2000; Chen, et al., 2003; Howng, Sy, et al., 2004; Howng, Hsu, et al., 2004; Hsu, et al., 2005; Lin, et al., 2006; Chou, et al., 2006, Cheng, et al., 2007; 2008, Howng, et al., 2010; Lieu, et al., 2010, Tang, et al., 2011 also see my cv). Particularly, we are the first lab to clone and demonstrate the function of GSKIP. The function of GSKIP is similar to that of FRAT/GBP, and our results indicate that GSKIP and GSKIPtide may act as an inhibitor of GSK3 β (Biochemistry, 2006). In fact, dysregulation of GSK3 is linking to several prevalent pathological conditions, such as diabetes and/or insulin resistance, and Alzheimer's disease. Therefore, much effort is currently directed to understand the function and control of GSK3 and to diminish the deleterious impact of GSK3 under abnormal conditions. Actually, GSKIP shares a homology with the GID and also acts as a negative regulator of GSK3 β , like GID and FRAT/GBP. Hence, we have recently proposed to focus on GSKIP in Wnt signaling pathway. Wnt signaling is involved in virtually every aspect of embryonic development and also controls homeostatic self-renewal in a number of adult tissues. Germline mutations in the Wnt pathway cause several hereditary diseases, and perturbations in Wnt signaling promote both human degenerative diseases and cancer

Recently, we will extend our researching aims about physiological definition of GSKIP, not only in Wnt pathway, but Hedgehog (Hh) pathway and GSK3 β -mediated tau (microtubule-associated protein) dynamics as well. Altogether, the identification of the GSKIP and GSKIPtide as GSK3 β inhibitors for drug discovery in Wnt/non-Wnt signaling pathway is important for understanding the molecular basis of these neurological cancers and Alzheimer pathogenesis.

More recently, there are two grants have just been approved. One is three-year grant from NHRI (The interactions with phosphorylation of hNinein, Astrin and CENP-E in centrosome/spindle function); the other one is three-year grant from NSC (Early signaling events involved in the entry of scrub typhus-*Orientia tsutsugamushi* rickettsia into mammalian cells). Therefore, in the next three year (2009-2012) the elucidation of hNinein, Astrin, CENP-E and its associated proteins in centrosomes, kinetochores and spindle checkpoint will help us to understand the molecular events of the centrosome and the regulation of shape, cell locomotion, cell division and disease, with a particular focus on the

origin of cancer. In addition, we will also foresee to achieve the identification of early signaling events involved in the entry of *O. tsutsugamushi* into mammalian cells is crucial to the understanding of the pathogenic properties of the scrub typhus agents as well as to the therapeutically drug discovery against *O. tsutsugamushi* infection. We hope to exterminate the scrub typhus infected by *O. tsutsugamushi* in Taiwan. Finally, another NSC grant entitled: Functional analysis of GSKIP and other GSK3 binding proteins involve in regulation of Alzheimer's disease has just approved (Oct. 2009-Sept. 2012). In this project, we will extend our researching aims about physiological definition of GSKIP, not only in Wnt pathway, but insulin pathway and GSK3 β -mediated microtubule dynamics as well. The current study focus on improving our understanding of the consequences of inhibiting GSK3, a key regulator of many signaling pathway, for assessing its potential as a therapeutic target and predicting possible side effect from endogenous view to control AD.

Honor, Awards:

Sept. 2012	16 th Congress of the European Federation of Neurological Societies, EFNS Stockholm, Sweden. Sept. 8-11, 2012
June. 2012	Invited speaker in Fu-In Univ.: The Collegial Education and Research -my humble Opinion. ESP with Cultural Differences: terminology vs. mother tongue. June 5, 2012.
April. 2012	ASBMB of Biochemistry and Molecular Biology. April 21-25, San Diego, CA, USA. Poster and as a judge of 16 th Annual Undergraduate Student Research Poster Competition
Feb. 2012	20 th symposium on recent advances in cellular and molecular biology. Oral presentation referee, Kaohsiung.
Dec. 2011	Invited speaker in Fu-In Univ.: Multi-faceted of GSK3beta with a novel partner GSKIP in disease signaling
Oct. 2011	7 th International Congress on Vascular Dementia, Riga, Latvia. Oct. 20-23, 2011.
Oct. 2011	KMU Outstanding research award of year (grants award of 2010)
June, 2011	4 th Congress of European Microbiologist, Geneva, Switzerland. June 26-30, 2011.
March 2011	10 th International Conference on AD/PD, Barcelona, Spain. Mar. 9-13. 2011.
Oct. 2010	KMU Outstanding research award of year (grants award of 2009)
Sept. 2010	12th IUBMB Conference and 21st FAOBMB Conference: "The molecules of life: from discovery to biotechnology" September 26 – October 1, 2010 Melbourne, Australia.
July. 2010	7 th FENS Forum in 2010, July 3-7. Amsterdam, The Netherlands.
Mar. 2010	Invited speaker in NCKU and NSYSU: Multiple-tasks of GSK3beta with a novel partner GSKIP.
Dec. 2009	49 th ASCB, Dec. 5-9. San Diego, CA, USA
Oct. 2009	KMU Outstanding research award of year (paper of 2008)
May 2009	The poster competition of Graduate School of Kaohsiung Medical University. Best poster award (2/30). Poster award, ranking 2nd among 30.
March 2009	24 th joint annual conference of biomedical sciences. Poster award.
March 2009	9th International Conference on AD/PD, Prague, CZ. Mar. 11-15. 2009.
June, 2008	5 th annual conference of Prof. Lin JY. Foundation. Kaohsiung, Taiwan. Best paper award.
June. 2008	The poster competition of Graduate School of Kaohsiung Medical University. Best poster award
Feb. 2008	Keystone symposia on molecular and cellular biology (Wnt/beta-catenin signaling in development and disease (B8). Feb. 17-22, Keystone, Colorado.
Jan. 2008	16 th symposium on recent advances in cellular and molecular biology. Poster award
Jan. 2007	15 th symposium on recent advances in cellular and molecular biology. Poster award

Dec. 2006	46 th ASCB, Dec. 9-13. San Diego, CA, USA.
June 2006	20 th IUBMB International Congress & 11 th FAOBMB Congress. June 18-23, Tyoko, Japan.
Jan. 2006	14 th symposium on recent advances in cellular and molecular biology. Section II, chairperson
Jan. 2006	14 th symposium on recent advances in cellular and molecular biology. Poster award
July 2005	30 th FEBS Congress & 9 th Congress of Biochemistry and Molecular Biology. July 12-7, Budapest.
March 2005	20 th joint annual conference of biomedical sciences. Poster award.
June 2004	ASBMB Congress & IUBMB Congress of Biochemistry and Molecular Biology. June 12-16, Boston, MA, USA..
March 2003	18 th joint annual conference of biomedical sciences. Poster award.
Jan. 2003	11 th symposium on recent advances in cellular and molecular biology. Poster award.
March 2002	17 th joint annual conference of biomedical sciences. Poster award (2 posters).
June, 2002	2 nd International Conference on Tumor Microenviroment: Progression, Therapy and Prevention. Baden, Vienna-Austria.
Jan. 2002	10 th symposium on recent advances in cellular and molecular biology. Oral presentation referee
Oct. 2001	6 th World Congress onAdvances in Oncology and the 4th International Symposium on Molecular Medicine. Crete, Greece
Oct. 2001	Outstanding teaching award of year 2000
Jan. 2001	9 th symposium on recent advances in cellular and molecular biology. Poster presentation referee
July 2000	JBC (USA) travel grant: Human ninein, a centrosome associated protein interacts with Glycogen synthase kinase 3. 18 th International Congress of Biochemistry and Molecular Biology. July 16-20, Birmingham, UK
March 2000	15 th joint annual conference of biomedical sciences. Tumor Biology II, Chairman
Jan. 2000	8 th symposium on recent advances in cellular and molecular biology. Poster presentation referee
Jan. 1998	6 th symposium on recent advances in cellular and molecular biology. Poster presentation referee
May, 1997	Ann Meeting Formos Med Assoc, Poster award: Studies with the yeast two-hybrid system, site-directed mutagenesis and random mutagenesis for NADPH oxidase p67-phox C-terminal SH3 domain.
May, 1997	Yeast Hybrid Systems Symposiun and Workshop, NHRI. Organizer & Coordinator.
April 1997	12 th joint annual conference of biomedical sciences Proteins and Peptides, Chairman
1990-93	Research assistantship of University of Maryland at Baltimore (UMAB)
1989-90	ITRI scholarship
1987-89	Government Abroad Scholarship (25 th National Science Council) & ITRI supported
1977-79	Scholarship sponsored by the Ministry of Education

Publications:

1. Chia-Hua Chou, Ching-Chih Lin, Ming-Chang Yang, Chih-Chang Wei, Huei-De Liao, Run-Chin Lin, Wen-Yu Tu, Tsung-Chieh Kao, Ching-Mei Hsu, Jiin-Tsuey Cheng, An-Kuo Chou, Chu-I Lee, Joon-Khim Loh, Shen-Long Howng and **Yi-Ren Hong*** GSK3beta-mediated Drp1 phosphorylation induced elongated mitochondrial morphology against oxidative stress. PLOS ONE 2012, R revise. (impact factor =4.092).
2. Joon-Khim Loh, Ann-Shung Lieu, Chia-Hua Chou, Ching-Chih Lin, Ming-Chang Yang, Fang-Yi Lin, **Yi-Ren Hong***, Shen-Long Howng* Differential expression of centrosome-associated

proteins in human brain tumors: a possible role of hNinein isoform 6 in cell differentiation BioFactors. 2012, In press. (impact factor =4.933).

3. Yung-Fu Chang, Hui-Ju Chou, Ying-Cheng Yen, Hsueh-Wei Chang, **Yi-Ren Hong**, Hurng-Wern Huang* and Chao-Neng Tseng* Agrin induces Association of Chrn1 mRNA and Nicotinic Acetylcholine Receptor in C2C12 Myotubes. FEBS lett, 2012, In press. (impact factor =3.538).
4. Chia-Hua Chou[#], An-Kuo Chou[#], Ching-Chih Lin[#], Wei-Jay Chen¹, Chih-Chang Wei, Ming-Chang Yang, Ching-Mei Hsu, For-Wey Lung, Joon-Khim Loh, Shen-Long Howng* and **Yi-Ren Hong*** GSK3beta regulates BCL2L12 and BCL2L12A anti-apoptosis signaling in glioblastoma and is inhibited by LiCl. Cell Cycle. 2012. 11(3):532-542. (impact factor =5.359).
5. Chen JY, Cheng KI, Tsai YL, **Hong YR**, Howng SL, Kwan AL, Chen IJ, Wu BN. Potassium-Channel Openers KMUP-1 and Pinacidil Prevent Subarachnoid Hemorrhage-Induced Vasospasm by Restoring the BKCa-Channel Activity. Shock. 2012, 38(2):203-12. (impact factor =2.848)
6. Loh JK, Lieu AS, Su YF, Cheng CY, Tsai TH, Lin CL, Lee KS, Hwang SL, Kwan AL, Wang CJ, **Hong YR**, Howng SL, Chio CC. The alteration of plasma TGF-β1 levels in patients with brain tumors after tumor removal. Kaohsiung J Med Sci. 2012, 28(6):316-21. (impact factor =0.477)
7. Lee CI, Chou AK, Lin CC, Chou CH, Loh JK, Lieu AS, Wang CJ, Huang CY, Howng SL, **Hong YR***. Immune and inflammatory gene signature in rat cerebrum insubarachnoid hemorrhage with microarray analysis. Mol Med Report. 2012, 5(1):118-25. (impact factor =0.418).
8. Ching-Chih Lin*, Chia-Hua Chou*, Tung-Cheng Lin, Ming-Chang Yang, Chung-Lung Cho, Chung-Hsing Chang, Hsin-Su Yu, Chung-Hsu Lai, Li-Kuang Chen and **Yi-Ren Hong***. Molecular characterization of three major outer membrane proteins, TSA56, TSA47 and TSA22, in *Orientia tsutsugamushi*. Int J Mol Med 2012, 30(1):75-84. (impact factor =1.573).
9. Howng SL, Chou AK, Lin CC, Lin ZA, Wang CJ, Loh JK, Lieu AS, Yen JH, Lee CI, **Hong YR***. Autoimmunity against hNinein, a human centrosomal protein, in patients with rheumatoid arthritis and systemic lupus erythematosus. Mol Med Report. 2011 Sep-Oct;4(5):825-30. (impact factor =0.418).
10. Xu-Nan Tang¹, Cheng-Wei Lo², Yu-Chung Chuang², Chao-Tung Chen³, Ying-Chieh Sun³, **Yi-Ren Hong**⁴, Chia-Ning Yang^{1,*},[‡] Prediction of the binding mode between GSK3β and a peptide derived from GSKIP using molecular dynamics simulation. Biopolymers, 2011. 95(7):461-71 (impact factor =2.87).
11. Chia-Hua Chou^{1,6,&}, Ann-Shung Lieu^{2,4,&}, Chia-Hung Wu^{1,&}, Li-Kwan Chang³, Joon-Khim Loh⁴, Run-Chin Lin¹, Wei-Jay Chen¹, Huei-De Liao¹, Wen-Shane Fu¹, Chung-Shing Chang⁵, Ching-Chih Lin^{1,5}, Ching-Mei Hsu⁶, Chung-Ching Chio⁷, Shen-Long Howng^{2,4} and **Yi-Ren Hong**^{1,2*} Differential expression of hedgehog signaling components and Snail/E-cadherin in human brain tumors. Oncology Reports 2010, 24: 1225-1232. (impact factor =1.835).
12. Ann-Shung Lieu^{1,5&}, Tai-Shan Cheng^{2&}, Chia-Hua Chou^{2,7&}, Chia-Hung Wu², Chia-Yi Hsu^{1,2}, Chi-Ying F. Huang³, Li-Kwan Chang⁴, Joon-Khim Loh⁵, Chung-Shing Chang⁶, Ching-Mei Hsu⁷,

- Shen-Long Howng^{1,5} and **Yi-Ren Hong**^{1,2,8*} Functional characterization of A novel Aurora-A binding protein, AIBp in centrosome structure and spindle formation. *Int. J. Oncol.* 2010, 37:429-436. (impact factor =2.399). GQ844687[#]
13. Joon-Khim Loh^{1,2,4}, Ann-Shung Lieu^{1,2}, Chia-Hua Chou⁵, Fang-Yi Lin⁵, Chia-Hung Wu⁵, Sheng-Long Howng¹, Chung Ching Chio³ and **Yi-Ren Hong**^{2,5*} Differential expression of centrosomal proteins at different stages of human glioma. *BMC Cancer* 2010, 10:268, p1-8. (impact factor =3.011).
 14. Shen-Long Howng¹, Chi-Ching Hwang¹, Chia-Yi Hsu¹, Meng-Yu Hsu, Chun-Yen Teng, Chia-Hua Chou, Mei-Feng Lee, Shean-Jaw Chiou, Ann-Shung Lieu, Joon-Khim Loh, Chia-Ning Yang, Chan-Shing Lin and **Yi-Ren Hong**^{*} Involvement of the residues of GSKIP, AxinGID and FRATtide in their binding with GSK3beta to unravel a novel C-terminal scaffold binding region", *Molecular and Cellular Biochemistry. Mol Cell Biochem.* 2010, 339:23–33. (impact factor =2.057).
 15. Ching-Chih Lin[&], Chia-Hua Chou[&], Hwang CC, Chihuei Wang, Ching-Mei Hsu, Shen-Long Howng and **Yi-Ren Hong**^{*}. GSKIP, an inhibitor of GSK3beta, mediates the N-cadherin/beta-catenin pool in the differentiation of SH-SY5Y cells". *J. Cellular Biochemistry.* 2009, 108:1325–1336. (impact factor =2.868).
 16. Lin CL^{*}, Dumont AS, Tsai YJ, Huang JH, Chang KP, Kwan AL, **Yi-Ren Hong**, Howng SL 17beta-Estradiol Activates Adenosine A(2a) Receptor After Subarachnoid Hemorrhage. *J Surg Res.* 2009, 157(2):208-15. (impact factor =2.247).
 17. Hwang CC^{*}, Hsu CN, Huang TJ, Chiou SJ, **Yi-Ren Hong**. Interactions across the interface contribute the stability of homodimeric 3alpha-hydroxysteroid dehydrogenase/carbonyl reductase. *Arch Biochem Biophys.* 2009, 490:36-41. (impact factor =2.935).
 18. Tzu-Chi Chen, Sheng-An Lee, Chen-Hsiung Chan, Yue-Li Juang, **Yi-Ren Hong**, Yi-Shann Huang, Jin-Mei Lai, Cheng-Yan Kao, and Chi-Ying F. Huang. Cliques in mitotic spindle network bring kinetochore-associated complexes to form dependence pathway. *Proteomics.* 2009 Aug 5;9(16):4048-4062. (impact factor =4.505).
 19. Liu GS, Shi JY, Lai CL, **Hong YR**, Shin SJ, Huang HT, Lam HC, Wen ZH, Hsu KS, Howng SL, Tai MH^{*}. Peripheral Gene Transfer of Glial Cell-Derived Neurotrophic Factor Ameliorates the Neuropathic Deficits in Diabetic Rats. *Hum Gene Ther.* 2009, 20(7): 715-727 (impact factor = 4.218).
 20. Chen CH, Lai JM, Chou TY, Chen CY, Su LJ, Lee YC, Cheng TS, **Hong YR**, Chou CK, Whang-Peng J, Wu YC, Huang CY^{*}. VEGFA upregulates FLJ10540 and modulates migration and invasion of lung cancer via PI3K/AKT pathway. *PLoS ONE.* 2009;4(4):e5052. (impact factor = 4.092).
 21. Chu-I Lee, Meng-Yu Hsu, Chia-Hua Chou, Chihuei Wang, Yu-Shung Lo, Joon-Khim Loh, Shen-Long Howng^{*}, **Yi-Ren Hong**^{*} (2009) CTNNB1 (β -catenin) mutation is rare in brain tumours but involved as a sporadic event in a brain metastasis. *Acta Neurochir (Wien).* 2009

- Sep;151(9):1107-11. (SCI) (impact factor = 1.52) (corresponding author)
22. Tai-Shan Cheng, Yun-Ling Hsiao, Ching-Chih Lin, Ricky Chang-Tze Yu, Ching-Mei Hsu, Mau-Sun Chang, Chu-I Lee, Chi-Ying F. Huang, Shen-Long Howng and **Yi-Ren Hong*** (2008) Glycogen synthase kinase 3beta interacts with and phosphorylates the spindle-associated protein Astrin. *J. Biol. Chem.*, Vol. 283, Issue 4, 2454-2464. (SCI) (impact factor = 4.773) (corresponding author)
 23. Li-Kwan Chang*; Shih-Tung Liu; Chung-Wen Kuo; Wen-Hung Wang; Jian-Ying Chuang; Elisabetta Bianchi; **Yi-Ren Hong** (2008) Enhancement of transactivation activity of Rta of Epstein-Barr virus by RanBPM. *J Mol Biol.* 379 (2), 231-242. (SCI) (impact factor = 4.001)
 24. Yu-Hsiang Lo[&], Ching-Chih Lin[&], Chi-Fong Lin, Ying-Ting Lin, **Yi-Ren Hong**, Sheng-Huei Yang, Shinne-Ren Lin, Shyh-Chyun Yang and Ming-Jung Wu* (2008) 2-(6-Aryl-3(Z)-hexen-1, 5-diynyl) anilines as a New Class of Potent Antitubulin Agents. *J. Med. Chem.*, 51 (9), 2682–2688. (SCI) (impact factor = 5.248)
 25. Chia-Ying Yang, Chao-Hui Chang, Tsu-Chun Emma Lin, Ya-Ling Yu, Sheng-An Lee, Chueh-Chuan Yen, Jinn-Moon Yang, Jin-Mei Lai, **Yi-Ren Hong**, Tzu-Ling Tseng, Kun-Mao Chao and Chi-Ying F. Huang* (2008) PhosphoPOINT: a comprehensive human kinase interactome and phospho-protein database. *Bioinformatics*, 24(16):i14-20. (SCI) (impact factor =4.877)
 26. Huei-Chuan Shih, Chih-Lung Lin, Shu-Chuan Wu, Aij-Lie Kwan, **Yi-Ren Hong*** and **Shen-Long Hwong*** (2008) Estrogen Receptor- α is Up-Regulated in Basilar Artery After Experimental Subarachnoid Hemorrhage in Rats and 17 β -Estradiol Mediates its Vasoprotective effects Via Estrogen Receptor- α *J Neurosurg*, 109, 92-99. (SCI) (impact factor = 2.739) (corresponding author)
 27. Hwang SL, Lin CL, Lieu AS, Hwang YF, Howng SL, **Yi-Ren Hong**, Chang DS, Lee KS* (2008) The expression of thyroid hormone receptor isoforms in human astrocytomas. *Surg Neurol.* 70 Suppl. 1:S4-8. (SCI) (impact factor = 1.260)
 28. Bin-Nan Wu, Chieh-Fu Chen, **Yi-Ren Hong**, Shen-Long Howng, Yi-Ling Lin and Ing-Jun Chen* (2007) Activation of BKca Channels via cyclic AMP- and cyclic GMP-dependent protein kinases by eugenosedin-A in rat basilar artery myocytes. *BJP* 152: 374-385. (SCI) (impact factor = 4.925)
 29. Tai-Shan Cheng¹, Yun-Ling Hsiao¹, Ching-Chih Lin¹, Mau-Sun Chang, Ching-Mei Hsu, Chu-I Lee, Ricky Chang-Tze Yu, Chi-Ying F. Huang, Shen-Long Howng and **Yi-Ren Hong***(2007) hNinein is required for targeting spindle-associated protein Astrin to the centrosome during the S and G2 phases. *Exp. Cell Res.* 313: 1710-1721. (SCI) (impact factor = 3.609) (corresponding author)
 30. Ching-Chih Lin[&], Tai-Shan Cheng[&], Ching-Mei Hsu, Che-Hsiang Wu, Long-Sen Chang, Zhi-Shiang Shen, Hom-Ming Yeh, Li-Kwan Chang, Shen-Long Howng and **Yi-Ren Hong***(2006) Characterization and functional aspects of human ninein isoforms - hNinein is regulated by centrosomal targeting signals and evidence for docking sites to direct gamma-tubulin. *Cell Cycle*

- 5 (21): 2517 – 2527. (SCI) (impact factor = 4.999) (corresponding author)
31. He-Yen Chou[&], Shen-Long Howng[&], Tai-Shan Cheng, Yun-Ling Hsiao, Ann-Shung Lieu, Joon-Khim Loh, Shiuh-Lin Hwang, Ching-Chih Lin, Ching-Mei Hsu, Chihuei Wang, Chu-I Lee, Pei-Jung Lu, Chen-Kung Chou, Chi-Ying Huang and **Yi-Ren Hong***(2006) GSKIP, shares a homology of Axin GID domain and functions as a negative regulator of GSK3beta. *Biochemistry* 45(38):11379-89. (SCI) (impact factor = 3.226) (corresponding author). NP_057556[#]
 32. Angela Chen*, Ping-Yao Wang, Yu-Chih Yang, Yi-Hsin Huang, Jeng-Jung Yeh, Yu-Huai Chou, Jiin-Tsuey Cheng, **Yi-Ren Hong**, Steven S.-L. Li (2006) SUMO regulates the cytoplasmic nuclear transport of its target protein Daxx. *J Cell Biochem.* 98(4):895-911. (SCI) (impact factor = 3.122)
 33. **Yi-Ren Hong**, Ya-Lei Chen, Lynn Farh, Wen-Jen Yang, Chen-Hua Liao and David Shiuan*(2006) Recombinant *Candida utilis* for the Production of Biotin. *Appl Microbiol Biotechnol.* 71 (2): 211-221. (SCI) (impact factor = 3.280). AF212161[#] (first author)
 34. Liu ST, Wang WH, **Yi-Ren Hong**, Chuang JY, Lu PJ, Chang LK*(2006) Sumoylation of Rta of Epstein-Barr virus is preferentially enhanced by PIASxbeta. *Virus Res.* 119(2):163-70 (SCI) (impact factor = 2.905)
 35. Hui-Ting Hsu, Po-Chun Liu, Sheng-Yu Ku, Kuo-Chen Jung, **Yi-Ren Hong**, Chinghai Kao and Chihuei Wang*(2006) β -Catenin control of T-cell transcription factor 4 (Tcf4) importation from the cytoplasm to the nucleus contributes to Tcf4-mediated transcription in 293 cells. *Biochem. Biophys. Res. Comm.* 343 (3):893-898. (SCI) (impact factor = 2.595)
 36. Tai-Shan Cheng, Li-Kwan Chang, Shen-Long Howng, Pei-Jung Lu, Chu-I Lee and **Yi-Ren Hong**,* (2006) SUMO-1 modification of centrosomal protein hNinein promotes hNinein nuclear localization. *Life Sciences.* 78(10), 1114-1120. (SCI) (impact factor = 2.451) (corresponding author)
 37. Li-Kwan Chang, Jian-Ying Chuang, **Yi-Ren Hong**, Takaya Ichimura, Misuyoshi Nakao, and Shih-Tung Liu* (2005) Activation of Sp1-Mediated Transcription by Rta of Epstein-Barr Virus Via an Interaction with MCAF1. *Nucleic Acids Res.* 33 (20): 6528-6539. (SCI) (impact factor = 6.878)
 38. Wangta Liu, Chi-Hsin Hsu, **Yi-Ren Hong**, Shu-Chuan Wu, Chun-Hsiung Wang, Yi-Min Wu, Chia-Ben Chao and Chan-Shing Lin* (2005) Early endocytosis pathways in SSN-1 cells infected by dragon grouper nervous necrosis virus. *J Gen. Virol.* 86: 2553-2561. (SCI) (impact factor = 3.092)
 39. Hui-Che Hsu, Yun-Lin Lee, Shen-Long Howng, Tai-Shan Cheng, Li-Kwan Chang, Pei-Jung Lu and **Yi-Ren Hong*** (2005) Characterization of two non-testis-specific CABYR variants that bind to GSK3b with a proline-rich extensin-like domain. *Biochem. Biophys. Res. Comm.* 329 (3):1108-1117. (SCI) (impact factor = 2.648) (corresponding author)
 40. Shiuh-Lin Hwang, Jing-Hon Chang, Tai-Shan Cheng, Wei-Di Sy, Ann-Shung Lieu, Chih-Lung Lin, Kung-Shing Lee, Shen-Long Howng, **Yi-Ren Hong*** (2005) The expression of rac3 in

- human brain tumors. *J Clin. Neurosci.* 12(5):571-574. (SCI) (impact factor = 1.19)
(corresponding author)
41. Shih-Lin Hwang, Ann-Shung Lieu, Jing-Hon Chang, Tai-Shan Cheng, Chih-Lung Lin, Kung-Shing Lee, Shen-Long Howng and **Yi-Ren Hong*** (2005) Rac2 expression and mutation in brain tumors. *Acta Neurochir (Wien)*. 2005 May; 147(5):551-4. (SCI) (impact factor = 1.634)
(corresponding author)
42. Shih-Lin Hwang, Jing-Hon Chang, Tai-Shan Cheng, Wei-Di Sy, Ann-Shung Lieu, Chih-Lung Lin, Kung-Shing Lee, Shen-Long Howng and **Yi-Ren Hong*** (2005) The expression of rac1 pseudogene in human tissues and in human brain tumors. *Eur. Surg. Res.* 37: 100-104. (SCI) (impact factor = 1.327) (corresponding author)
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