

1. Chan YW, Ma HT, Wong W, Ho CC, On KF and **Poon RYC** (2008). Cdk1 inhibitors antagonize the immediate apoptosis triggered by spindle disruption but promote apoptosis following the subsequent replication and abnormal mitosis. *Cell Cycle*. 7:1149-1161.
2. Chan YW, On KF, Chan WM, Wong W, Siu HO, Hau PM and **Poon RYC** (2008). The kinetics of p53 activation versus cyclin E accumulation underlies the relationship between the spindle-assembly checkpoint and the postmitotic checkpoint. *J. Biol. Chem.* 283:15716-15723.
3. Chen J, Pan LF, Wei Z, Zhao Y and **Zhang M** (2008). Domain swapped dimerization of ZO-1 PDZ2 generates specific and regulatory connexin43 binding sites. *EMBO J.* 27:2113-2123.
4. Chen Y and **Poon RYC** (2008). The multiple checkpoint functions of CHK1 and CHK2 in maintenance of genome stability. *Frontiers of Biosci.* 13:5016-5029.
5. Cheung ZH, Gong K and **Ip NY** (2008). Cyclin-dependent kinase 5 supports neuronal survival through phosphorylation of Bcl-2. *J. Neurosci.* 28(10):4872-4877.
6. Cheung ZH and **Ip NY** (2008). Cdk5 in dendrite and synapse development: emerging role as a modulator of receptor tyrosine kinase signaling. *Cyclin Dependent Kinase 5 (Cdk5)*. 51-68. (Springer Science+Business Media, LLC. ed. N.Y Ip and L.-H. Tsai).
7. Cheung ZH and **Ip NY** (2008). Neurotrophins – players in the regulation of neuronal survival and apoptosis. *Current Science*. 95(9):1237-1251. Invited.
8. Choi RCY, Mok MKW, Cheung AWH, Siow NL, Xie HQ and **Tsim KWK** (2008). Regulation of PRiMA-linked G4 AChE by a cAMP-dependent signaling pathway in cultured rat pheochromocytoma PC12 cells. *Chem. Biol. Interact.* 175:76-78.
9. Choi RCY, Simon J, **Tsim KWK** and Barnard EA (2008). Constitutive and agonist-induced dimerizations of the P2Y₁ receptor: relationship to internalization and scaffolding. *J. Biol. Chem.* 283(16):11050-11063.
10. **Dai WM**, Chen Y, Jin J, Wu J, Lou J and He Q (2008). Total synthesis of amphidinolide X and its 12Z-isomer by formation of the C12–C13 trisubstituted double bond via ring-closing metathesis: *Synlett*. 1737-1741.
11. **Dai WM**, Feng G, Wu J and Sun L (2008). Synthesis of C3-C12 fragment of 24-demethylbafilomycin C₁ via anti-selective aldol condensation as the key stereocontrol step. *Synlett*. 1013-1016.
12. **Dai WM**, Li Y, Zhang Y, Yue C and Wu J (2008). Generation of an aromatic amide-derived phosphane (Aphos) library by self-assisted molecular editing and applications of aphos in room-temperature Suzuki-miyaura reactions. *Chem. Eur. J.*

14:5538-5554.

13. **Dai WM**, Shi J and Wu J (2008). Synthesis of 3-arylideneindolin-2-ones from 2-aminophenols by Ugi four-component reaction and Heck carbocyclization. *Synlett*. 2716-2720.
14. Feng W, Wu H, Chan LN and **Zhang M** (2008). Par-3-mediated junctional localization of the lipid phosphatase PTEN is required for cell polarity establishment. *J. Biol. Chem.* 283:23440-23449.
15. Fong KW, Choi YW, Rattner JB and **Qi RZ** (2008). CDK5RAP2 is a pericentriolar protein that functions in centrosomal attachment of the γ -tubulin ring complex. *Mol. Biol. Cell* 19(1), 115-125.
16. Fu AKY, Cheung ZH and **Ip NY** (2008). β -catenin in reverse action. *Nature Neurosci.* 11:244-246.
17. Fu AKY and **Ip NY** (2008). Target assessment on CDK5. (online publication in *Targeted Proteins Database*, Current BioData Ltd.) Invited.
18. Fu GM, Pang H and **Wong YH** (2008). Naturally occurring phenylethanoid glycosides: potential leads for new therapeutics. *Curr. Med. Chem.* 15:2592-2613.
19. Fu H, Dou J, Li WM, Luo J, Li KC, Lam CS, Lee NTK, Li M and **Han YF** (2008). Mecamylamine prevents neuronal apoptosis induced by glutamate and low potassium via differential anticholinergic-independent mechanisms. *Neuropharma.* 54(4):755-765.
20. Fu H, Li W, Luo J, Lee NT, Li M, **Tsim KWK**, Pang Y, Youdim MB and **Han YF** (2008): Promising anti-Alzheimer's dimer bis(7)-tacrine reduces beta-amyloid generation by directly inhibiting BACE-1 activity. *Biochem. Biophys. Res. Commun.* 366:631-636.
21. Gao QT, Cheung JKH, Choi RCY, Cheung AWH, Li J, Jiang ZY, Chu GKY, Duan R, Zhao KJ, Dong TTX and **Tsim KWK** (2008). A Chinese herbal decoction prepared from Radix Astragali and Radix Angelicae Sinensis induces the expression of erythropoietin in cultured Hep3B cells. *Planta Medica.* 74(4):392-395.
22. Geng L, Qian YK, Madhavan R and **Peng HB** (2008). Transmembrane mechanisms in the assembly of the postsynaptic apparatus at the neuromuscular function. *Chem. Biol. Interact.* 175(1-3):108-112.
23. He L, Hou Z and **Qi RZ** (2008). Calmodulin-binding and Cdk5 phosphorylation of p35 regulate its effect on microtubules. *J. Biol. Chem.* 283(19):13252-13260.
24. Kwan DHT, Kam AYF and **Wong YH** (2008). Activation of the human FPRL-1 receptor promotes Ca^{2+} mobilization in U87 astrocytoma cells. *Neurochem. Res.* 33:125-133.

25. Lau FTC, Choi RCY, Xie HQ, Leung KW, Chen VP, Zhu JTT, Bi CWC, Chu GKY and **Tsim KWK** (2008). Myocyte enhancer factor 2 mediates the muscular activity-induced expression of acetylcholinesterase-associated collagen ColQ in cultured myotubes: a signaling cascade in driving the differential expression of ColQ in muscles. *Mol. Cell. Neurosci.* 39:429-438.
26. Lee CW and **Peng HB** (2008). The function of mitochondria in presynaptic development at the neuromuscular junction. *Mol. Biol. Cell.* 19(1):150-158.
27. Lee SMY, Cheung CY, Nicholls JM, Hui KPY, Leung CYH, Uiprasertkul M, Tipoe GL, Lau YL, Poon LLM, **Ip NY**, Guan Y and Peiris MJS (2008). Hyper-induction of COX-2 mediated proinflammatory cascade: A mechanism for the pathogenesis of avian influenza H5N1. *J. Infectious Disease.* 198(4):525-535.
28. Lin S, Wang J, Ye Z, **Ip NY** and Lin SC (2008). Cdk5 activator p35 downregulates E-cadherin precursor independently of Cdk5. *FEBS Lett.* 582:1197-1202.
29. Liu YW, Luo JL, Ren H, Peoples RW, Ai YX, Liu LJ, Pang YP, Li ZW, **Han YF** and Li CY (2008). Inhibition of NMDA-gated ion channels by bis(7)-tacrine: whole-cell and single-channel studies. *Neuropharma.* 54:1086-1094.
30. Lo RKH, Liu AMF, Wise H and **Wong YH** (2008). Prostacyclin receptor-induced STAT3 phosphorylation in human erythroleukemia cells is mediated via $G\alpha_s$ and $G\alpha_{16}$ hybrid signaling. *Cell. Signal.* 20:2095-2106.
31. Long J, Wei Z, Feng W, Yu C, Zhao YX and **Zhang M** (2008). Supramodular nature of GR1P1 revealed by the structure of its PDZ12 tandem in complex with the carboxyl tail of Fras1. *J. Mol. Biol.* 375(5):1457-1468.
32. Ng KH, He L and **Qi RZ** (2008). Protein-protein interactions involving the N-terminus of p35. In *Cyclin Dependent Kinase 5 (Cdk5)*. p. 159-170. (Springer Science+Business Media, LLC. ed. N.Y Ip and L.-H. Tsai).
33. Pang THH, Ip FCF and **Ip NY** (2008). Recent development in the search for effective antidepressants using traditional chinese medicine. *Central Nervous System Agents in Medicinal Chem.* 8:64-71.
34. Qian YK, Chan AW, Madhavan R and **Peng HB** (2008). The function of Shp2 tyrosine phosphatase in the dispersal of acetylcholine receptor cluster. *BMC Neurosci.* 9:70.
35. Song C, Wen W, Rayala SK, Chen M, Ma J, **Zhang M**, and Kumar R (2008). Serine 88 phosphorylation of the 8-kDa dynein light chain 1 is a molecular switch for its dimerization status and functions. *J. Biol. Chem.* 283(7):4004-4013.
36. Tian YJ, Lee MMK, Yung LY, Allen RA, Slocombe PM, Twomey BM and **Wong YH** (2008). Differential involvement of $G\alpha_{16}$ in CC chemokine-induced stimulation of

phospholipase C β , ERK, and chemotaxis. *Cell. Signal.* 20:1179-1189.

37. **Tsim KWK**, Choi RCY, Xie HQ, Zhu ZTT, Leung KW, Lau FTC, Chu GKY, Chen VP, Mok MKW, Cheung AWH and Bi CWC (2008). Transcriptional control of different subunits of AChE in muscles: Signaling triggered by the motor nerve-derived factors. *Chem. Biol. Interact.* 175:58-63.
38. Wang H, Xu Q, Xiao F, Jiang Y and **Wu Z** (2008). Involvement of the p38 mitogen-activated protein kinase α , β and γ isoforms in myogenic differentiation. *Mol. Biol. Cell.* 19:1519-28.
39. Wan J, Cheung AY, Fu WY, Wu C, Zhang M, Mobley WC, Cheung ZH and **Ip NY** (2008). Endophilin B1 as a novel regulator of NGF/TrkA trafficking and NGF-induced neurite outgrowth. *J. Neurosci.* 28:9002-9012.
40. Wang K, Wang C, Xiao F, Wang H and **Wu Z** (2008). JAK2/STAT2/STAT3 are required for myogenic differentiation. *J. Biol. Chem.* 283: 34029-36.
41. Wen W, Liu W, Yan J and **Zhang M** (2008). Structure basis and unconventional lipid membrane binding properties of the PH-C1 tandem of Rho-kinases. *J. Biol. Chem.* 283: 26263-26273.
42. Wu WB, Liang HQ, Kan JS, Liu C, Yuan MJ, **Liang C**, Yang K and Pang Y (2008). Autographa californica multiple nucleopolyhedrovirus 38K is a novel nucleocapsid protein that interacts with VP1054, VP39, VP80 and itself. *J. Virol.* 82:12356-12364.
43. Xie HQ, Leung KW, Chen VP, Lau FTC, Liu LS, Choi RCY, **Tsim KWK** (2008). The promoter activity of proline-rich membrane anchor (PRiMA) of globular form acetylcholinesterase in muscle: Suppressive roles of myogenesis and innervating nerve. *Chem. Biol. Interact.* 175:79-82.
44. Song C, Wen W, Rayala SK, Singh RR, Chen M, Ma J, Talukder AH, **Zhang M** and Kumar R (2008). Serine 88 phosphorylation of the dynein light chain 1 is a molecular switch for its dimerization status and functions" *J. Biol. Chem.* 283:4404-4413.
45. Yan J, Wen W, Chan LN and **Zhang M** (2008). Split pleckstrin homology domain-mediated cytoplasmic-nuclear localization of PI3-kinase enhancer GTPase. *J. Mol. Biol.* 378:425-435.
46. Yu H, Li WM, Kan KK, Ho J, Carlier P, Pang YP, Gu ZM, Zhong Z, Chan KC, Wang YT and **Han YF** (2008). The physicochemical properties and the in vivo AChE inhibition of two potential anti-Alzheimer agents, bis(12)-hupyridone and bis(7)-tacrine. *J. Pharma. & Biomed. Analysis.* 46(1):75-81.
47. Yung LY, Tso PH, Wu EHT, Yu JCH, **Ip NY** and **Wong YH** (2008). Nerve growth factor-induced stimulation of p38 mitogen-activated protein kinase in PC12 cells is

partially mediated via $G_{i/o}$ proteins. *Cell. Signal.* 20:1538-1544.

48. Yu MYM, Ho MKC, Liu AMF and **Wong YH** (2008). Mutations on the Switch III region and the α_3 helix of $G\alpha_{16}$ differentially affect receptor coupling and regulation of downstream effectors. *J. Mol. Signal.* 3:17.
49. Zhang L, Yu H, Li WM, Cheung MC, Pang YP, Gu ZM, Chan K, Wang YT, Zuo Z and **Han YF** (2008). Preclinical characterization of intestinal absorption and metabolism of promising anti-Alzheimer's dimer bis(7)-tacrine. *Int'l J. Pharma.* 357:85-94.
50. Zhao YM, Li WM, Chow PCY, Lau DTK, Lee NTK, Pang Y, Zhang X, Wang X and **Han YF** (2008). Bis(7)-tacrine, a promising anti-Alzheimer's dimer, affords dose- and time-dependent neuroprotection against transient focal cerebral ischemia. *Neurosci. Lett.* 439(2):160-4.