

1. Barnes AP, Livera G, **Huang P**, Sun C, O'Neal W K, Conti M, Stutts MJ and Milgram SL (2005). Phosphodiesterase 4D Forms a cAMP diffusion barrier at the apical membrane of the airway epithelium. *J Biol Chem.* 280: 7997-8003.
2. Cao S, Yang Y, Ng NLJ and **Guo Z** (2005). Macrolactonization catalysed by the terminal thioesterase domain of the nonribosomal peptide synthase responsible for lichenysin biosynthesis. *Bioorg. Med. Chem. Lett.* 15: 2595–2599.
3. Carles M, Cheung MKL, Moganti S, Dong TTX, **Tsim KW**, **Ip NY** and Sucher N (2005). A DNA microarray for the authentication of toxic traditional Chinese medicinal plants. *Planta Medica* 71: 580-584.
4. Chan ASL, New DC and **Wong YH** (2005). Molecular basis of opioid actions: regulation of mitogen-activated protein kinases. In: *Recent Developments on Pain Research*, (Capasso A ed.), pp. 41-58, Research Signpost Publishers.
5. Chan ASL, Pang H, Yip ECH, Tam YK, and **Wong YH** (2005). Carvacrol and eugenol differentially stimulate intracellular Ca²⁺ mobilization and mitogen-activated protein kinases in Jurkat T-cells and monocytic THP-1 cells. *Planta Medica.* 71: 634-639.
6. Chan ASL and **Wong YH** (2005). G_q-mediated activation of JNK by the GRP receptor is inhibited upon co-stimulation of the G_s-coupled dopamine D₁ receptor in Cos-7 cells. *Mol. Pharmacol.* 68:1354-1364.
7. Chan ASL, Yeung WWS, and **Wong YH** (2005). Integration of G protein signals by extracellular signal-regulated protein kinases in SK-N-MC neuroepithelioma cells. *J. Neurochem.* 94: 1457-1470.
8. Chan ASL, Yip ECH, Yung LY, Pang H, Luk SCW, Pang SF and **Wong YH** (2005). Immuo-regulatory effects of CKBM on the activities of mitogen-activated protein kinases and the production of cytokines in THP-1 monocytic cells. *Biol. Pharm. Bull.* 28: 1645-1650.
9. **Chang DC**, Zhou LY and Luo KQ (2005). Using GFP and FRET technologies for studying signaling mechanisms of apoptosis in a single living cell. In: *Biophotonics-Optical Science & Engineering for 21st Century*. Vol. 3: 25-38. Edited by Shen X and Wijk RV. Springer, New York.
10. Chen J, Ruan H, Ng SM, Gao C, Soo HM, Wu W, Zhang ZH, **Wen ZL**, Lane DP, and Peng JR (2005). Loss of function of def selectively up-regulates 113p53 expression to arrest expansion growth of digestive organs in zebrafish. *Genes & Development.* 19:2900-2911.

11. Cheung JKH, Li SP and **Tsim KWK** (2005). Authentication and quality control of *Cordyceps sinensis*, a traditional Chinese medicine known as summer-grass winter-worm. *Oriental Pharmacy and Experimental Medicine*. 5: 262-271.
12. Chou GX, Dong TTX, **Tsim KWK**, Wang ZT and Yu ZL (2005). Quantitative detection of gentiopicrin in Radix Gentianae. *Shanghai J. Traditional Chinese medicine*. 39: 53-55.
13. Chu KW, Chan SKW and **Chow KL** (2005). Improvement of heavy metal stress and toxicity assays by coupling a transgenic reporter in a mutant nematode strain. *Aquatic Toxicol*. 74: 320-332.
14. **Chung KK**, Dawson VL and Dawson TM (2005). S-Nitrosylation in Parkinson's Disease and related neurodegenerative disorders. *Meth. Enzymol*. 396: 139-50.
15. **Chung KK**, Dawson TM and Dawson VL (2005). Nitric oxide, S-nitrosylation and neurodegeneration. *Cell. Mol. Biol*. 51: 247-54.
16. **Dai WM**, Guan YC and Jin J (2005). Structures and total synthesis of the plecomacrolides. *Curr. Med. Chem*. 12: 1947-1993.
17. **Dai WM**, Wang X and Ma C (2005). Microwave-assisted one-pot regioselective synthesis of 2-Alkyl-3,4-dihydro-3-oxo-2H-1,4-benzoxazines. *Tetrahedron*. 61: 6879-6885.
18. **Dai WM** and Zhang Y (2005). A family of simple amide-derived air-stable P,O-ligands for suzuki cross-coupling of unactivated aryl chlorides. *Tetrahedron Lett*. 46: 1377-1381.
19. Dong TXX, Zhao KJ, Huang WZ, Leung KW and **Tsim KWK** (2005). Orthogonal array design in optimizing the extraction conditions of active constituents from roots of *Panax notoginseng*. *Phytotherapy Res*. 19(8): 684-688.
20. Feng W, Long J and **Zhang M** (2005). A unified assembly mode revealed by the structures of tetrameric L27 domain complexes formed by mLin-2/mLin-7 and Patj/Pals1 scaffold proteins. *Proc. Natl. Acad. Sci. USA*. 102:6861-6866.
21. Fu AKY, Ip FCF, Fu WY, Cheng J, **Wang J**, Yung WH and **Ip NY** (2005). Aberrant motor axon projection, AChR clustering and neurotransmission in cyclin-dependent kinase 5 null mice. *Proc. Natl. Acad. Sci. USA* 102: 15224-15229.
22. Fung TK and **Poon RYC** (2005). A roller coaster ride with the mitotic cyclins. *Sem. Cell Devel. Biol*. 16: 335-42.

23. Fung TK, Yam CH and **Poon RYC** (2005). The N-terminal regulatory domain of cyclin A contains redundant ubiquitination targeting sequences and acceptor sites. *Cell Cycle*. 4: 1411-20.
24. Gardner SM, Takamiya K, **Xia J**, Suh J, Johnson R, Yu S and Huganir RL (2005). Calcium-Permeable AMPA Receptor Plasticity Is Mediated by Subunit-Specific Interactions with PICK1 and NSF. *Neuron*. 45(6):903-915
25. Gu Z, Jiang Q, Fu AKY, **Ip NY** and Yan Z (2005). Regulation of NMDA receptors by neuregulin signaling in prefrontal cortex. *J. Neurosci*. 25: 4874-4984.
26. Guo J, Pu YM and **Chang DC** (2005). Calcium signalling and apoptosis. *Acta Biophys. Sinica*. 21:1-18.
27. He H, **Chang DC** and Lee YK (2005). Micro pulsed radio-frequency electroporation chips. *Bioelectrochemistry*. 68: 91-99.
28. He W, Gong K, Smith DK and **Ip NY** (2005). The N-terminal cytokine binding domain of LIFR is required for CNTF binding and signaling. *FEBS Letters* 579: 4317-4323.
29. Ho CC, Siu WY, Chow JPH, Lau A, Arooz T, Tong HY, Ng IOL and **Poon RYC** (2005). The relative contribution of CHK1 and CHK2 to Adriamycin-induced checkpoint. *Exp. Cell Res*. 304: 1-15.
30. Huang WZ, Dong TTX, Qi HY, Lu ZQ and **Tsim KWK** (2005). Identification of *Stellaria medica* by PCR. *J. Chin. Pharma. Sci*. 14: 144-148.
31. Hussain A, Cao DN, Cheng H, **Wen ZL** and Peng JR (2005). Identification of the conserved serine/threonine residues important for gibberellin-sensitivity of Arabidopsis RGL2 protein. *Plant J*. 44: 88-99.
32. Jiang Y, Xu J, Zhou CZ, **Wu ZG**, Zhong SQ, Liu JH, Luo W, Chen T, Qin QH and Deng P (2005). Characterization of cytokine/chemokine profiles of severe acute respiratory syndrome. *Am. J. Respir. Crit. Care Med*. 171: 850-7.
33. Ko HS, Von Coelln R, Sriram SR, Kim SW, **Chung KK**, Pletnikova O, Troncoso J, Johnson B, Saffary R, Goh EL, Song H, Park BJ, Kim MJ, Kim S, Dawson VL and Dawson TM (2005). Accumulation of the authentic parkin substrate aminoacyl-tRNA synthetase cofactor, p38/JTV-1, leads to catecholaminergic cell death. *J. Neurosci*. 25: 7968-78.
34. Kwok ACM and **Wong JTY** (2005). Proliferation of dinoflagellates: blooming or bleaching. *BioEssays*. 27: 730-740.
35. Li WM, Pi RB, Chan HHN, Fu HJ, Lee NTK, Tsang HW, Pu YM, **Chang DC**, Li CY, Luo JL, Xiong KM, Li ZW, **Xue H**, Carrier PR, Pang YP, **Tsim KWK**, Li MT and Han

- Y (2005). Novel dimeric AChE inhibitor Bis(7)-tacrine, but not Donepezil, prevents glutamate-induced neuronal apoptosis by blocking NMDA receptors. *J. Biol. Chem.* 280: 18179-88.
36. Lim KL, Chew KCM, Tan JMM, Wang C, **Chung KK**, Zhang Y, Tanaka Y, Wei WL, Engelder S, Ross CA, Dawson VL and Dawson TM (2005). Parkin mediates non-classical, proteasomal-independent, ubiquitination of Synphilin-1: Implications for Lewy Body formation. *J. Neurosci.* 25: 2002-9.
37. Ling KKY, Siow NL, Choi RCY and **Tsim KWK** (2005). ATP potentiates the formation of AChR aggregate in the co-culture of NG108-15 cells with C2C12 myotubes. *FEBS Letters.* 579: 2469-2474.
38. Liu AMF and **Wong YH** (2005). Activation of nuclear factor κ B by somatostatin type 2 receptor in pancreatic acinar AR42J cells involves $G\alpha_{14}$ and multiple signaling components: A mechanism requiring PKC, CaMKII, ERK and c-Src. *J. Biol. Chem.* 280: 34617-34625.
39. Liu AMF and **Wong YH** (2005). μ -opioid receptor-mediated phosphorylation of I κ B kinase in human neuroblastoma SH-SY5Y cells. *NeuroSignals.* 14: 136-142.
40. Lo KWH, Kan HM, Chan LN, Xu WG, Wang KP, **Wu Z**, Sheng M and **Zhang MJ** (2005). The 8-kDa dynein light chain binds to p53-binding protein 1 and mediates DNA damage-induced p53 nuclear accumulation. *J. Biol. Chem.* 280: 8172-8179.
41. Lo KY, Chin WH, Ng YP, Cheng W, Cheung ZH and **Ip NY** (2005). SLAM-associated protein (SAP) as a potential negative regulator in Trk signaling. *J. Biol. Chem.* 280: 41744-41752.
42. Long JF, Feng W, Wang R, Chan LN, Ip FCF, **Xia J**, **Ip NY** and **Zhang M** (2005). Auto-inhibition of X11s/Mints scaffold proteins revealed by the closed conformation of the PDZ tandem. *Nat. Struct. & Mol. Biol.* 12:722-728.
43. Luo S, Chen Y, Lai KO, Arevalo JC, Froehner S, Adams ME, Chao M and **Ip NY**. (2005). α -Syntrophin regulates ARMS localization at the neuromuscular junction and enhances EphA4 signaling in an ARMS-dependent manner. *J. Cell Biol.* 169: 813-824.
44. Ma K, Chan JKL, Zhu G and **Wu ZG** (2005). Myocyte enhancer factor 2 acetylation by p300 enhances its DNA binding activity, transcriptional activity and myogenic differentiation. *Mol. Cell. Biol.* 25: 3575-82.
45. Madhavan R and **Peng HB** (2005). HGF induction of postsynaptic specializations at the neuromuscular junction. *J. Neurobiol.* 66: 134-147.
46. Madhavan R and **Peng HB** (2005). Molecular regulation of postsynaptic differentiation at the neuromuscular junction. *IUBMB Life.* 57: 719-730.

47. Madhavan R, Zhao XT, Ruegg MA and **Peng HB** (2005). Tyrosine phosphatase signaling in MuSK-mediated acetylcholine receptor clustering. *Mol. Cell. Neurosci.* 28: 403-416.
48. Mak CKM, Hung VKL and **Wong JTY** (2005). Type II Topoisomerase activities in both G1 and G2/M phases of the dinoflagellate cell cycle. *Chromosoma.* 114: 420-431.
49. Ma K, Chan JKL, **Zhu G** and **Wu Z** (2005). Myocyte enhancer factor 2 acetylation by p300 enhances its DNA binding activity, transcriptional activity and myogenic differentiation. *Mol. Cell. Biol.* 25: 3575-82.
50. New DC and **Wong YH** (2005). Chimeric and promiscuous G proteins in drug discovery and the deorphanization of GPCRs. *Drug Design Rev Online.* 2: 66-79.
51. Qian F, Zhen FH, Ong CT, Jin SW, Soo HM, Stainier DYR, Lin S, Peng JR and **Wen ZL** (2005). Microarray analysis of zebrafish cloche mutant using amplified cDNA and the identification of potential hematopoietic-endothelial target genes. *Developmental Dynamics.* 233:1163-1172.
52. Shi HM, Williams ID, Sung HH, Zhu HX, **Ip NY** and Min ZD (2005). Cytotoxic diterpenoids from the roots of *Euphorbia ebracteolata*. *Planta Medica* 71: 349-54.
53. Siow NL, Xie HQ, Choi RCY and **Tsim KWK** (2005). ATP induces the post-synaptic gene expression in neuron-neuron synapses: Transcriptional regulation of AChE catalytic subunit. *Chem. Biol. Interact.* 157-158: 423-426.
54. Sriram SR, Li X, Ko H, **Chung KK**, Wong E, Lim KL, Dawson VL and Dawson TM (2005). Familial-associated mutations differentially disrupt the solubility, localization, binding and ubiquitination properties of parkin. *Hum. Mol. Genet.* 14: 2571-86.
55. Tai MC, Tsang SY, Chang LYF and **Xue H** (2005). Therapeutic potentials of wogonin: a naturally occurring flavonoid. *CNS Drug Reviews.* 11 (2): 141-50.
56. Ting AKL, Siow NL, Kong LW and **Tsim KWK** (2005). Transcriptional regulation of acetylcholinesterase-associated collagen ColQ in fast- and slow-twitch muscle fibers. *Chem. Biol. Interact.* 157-158: 63-70.
57. **Tsim KWK** (2005). Danggui Buxue Tang (DBT, Chinese *Angelica* Decoction): a sample trial in TCM standardization. *Asia-Pacific Biotech News (APBN).* 8: 1316-1321.
58. Wang F, Huen MSY, Tsang SY and **Xue H** (2005). Neuroactive flavonoids interacting with GABA_A receptor complex. *Current Drug Targets – CNS & Neurol. disorders.* 4:575-585

59. Wang Y, Lam CK and **Huang P** (2005). Regulation of CFTR channels by bicarbonate-sensitive soluble adenylyl cyclase in human airway epithelial cells. *Am. J Physiol (Cell Physiol)*. 289:1145-1151.
60. Webb SE, Moreau M, Leclerc C and **Miller AL** (2005). Calcium transients and neural induction in vertebrates. *Cell Calcium*. 37: 375-385.
61. Wu EHT and **Wong YH** (2005). Activation of δ -, κ -, and μ -opioid receptors induces phosphorylation of tuberlin in transfected HEK 293 cells and native cells. *Biochem. Biophys. Res. Commun.* 334: 838-844.
62. Wu EHT and **Wong YH** (2005). Pertussis toxin-sensitive $G_{i/o}$ proteins are involved in nerve growth factor-induced pro-survival Akt signaling cascade in PC12 cells. *Cell. Signal.* 17: 881-890.
63. Wu EHT and **Wong YH** (2005). Involvement of $G_{i/o}$ proteins in nerve growth factor-stimulated phosphorylation and degradation of tuberlin in PC12 cells and cortical neurons. *Mol. Pharmacol.* 67: 1195-1205.
64. Wu XM, Gao XM, **Tsim KWK** and Tu PF (2005). An arabinogalactan isolated from the stems of *Cistanche deserticola* induces the proliferation of cultured lymphocytes. *Int'l J. Biol. Macromolec.* 37: 278-282.
65. Xia Q, Zhao KJ, Huang ZG, Zhang P, Dong TTX, Li SP and **Tsim KWK** (2005). Molecular genetic and chemical assessment of Rhizoma Curcumae in China. *J. Agric. Food Chem.* 53: 6019-6026.
66. Xie HQ, Siow NL, **Peng HB**, Massoulie J and **Tsim KWK** (2005). Regulation of PRiMA: membrane anchor of acetylcholinesterase (AChE) in neuron and muscle. *Chem. Biol. Interact.* 157-158: 432.
67. Xu ZW, Fang S, Shi H, Li HM, Wu JM, Chen HM, Deng YQ, Liao YL, Zheng H, Zhu HM, Tsang SY and **Xue H** (2005). Topology characterization of a benzodiazepine-binding β -rich domain of the GABA_A receptor α_1 subunit. *Protein Science.* 14: 2622 – 2637.
68. Xu X, Fu AKY, Ip FCF, Wu CP, Duan S, Poo MM, Yuan XB and **Ip NY** (2005). Agrin regulates growth cone turning of *Xenopus* spinal motoneurons. *Development* 132: 4309-4316.
69. **Xue H**, Ng SK, Tong K and Wong JTF (2005). Congruence of evidence for a *Methanopyrus*-proximal root of life based on tRNA and aminoacyl-tRNA synthetase genes. *Gene.* 360:120-130

70. Yan J, Wen W, Xu W, Long JF, Adams ME, Froehner SC and **Zhang M** (2005). Structure of the split PH domain and distinct lipid binding properties of the PH-PDZ supramodule of α 1-syntrophin. *EMBO J.* 24:3985-3995.
71. Yang FQ, Li SP, Chen Y, Lao SC, Wang YT, Dong TTX and **Tsim KWK** (2005). Identification and quantitation of eleven sesquiterpenes in three species of *Curcuma* rhizomes by pressurized liquid extraction and gas chromatography-mass spectrometry. *J. Pharm. Biomed. Anal.* 39: 552-558.
72. Yeung PKK, Lam CMC and **Wong JTY** (2005). Monitoring cytosolic calcium in the dinoflagellate *Cryptothecodinium cohnii* with calcium orange-AM. *Plant & Cell Physiol.* 46: 1021-1027.
73. Yew EHJ, Cheung NS, Choy MS, **Qi RZ**, Lee AYW, Peng ZF, Romero AJM, Manikandan J, Koay ESC, Chiu LL, Ng WL, Whiteman M, Kandiah J and Halliwell B (2005). Proteasome inhibition by lactacystin in primary neuronal cells induces both potentially neuroprotective and pro-apoptotic transcriptional responses: a microarray analysis. *J. Neurochem.* 94: 943-956.
74. Yin YL, Liu CD, Tsai H, Zhou B, Ngai SM and **Zhu G** (2005). SET8 recognizes the sequence RHRK20VLRD within the N-terminus of histone H4 and mono-methylates lysine 20. *J. Biol. Chem.* 280: 30025-31.
75. Yip E, Liu AMF, Wong JTY and **Wong YH** (2005). An aqueous extract of the popular Chinese nutraceutical Kwek Ling Ko (Tortoise shell-Rhizoma Jelly) activates the PPAR γ pathway and down regulates NF κ B activity. *Phytomed.* 12: 748-759.
76. Zhao KJ, Dong TTX, Lo CK, Tu PF and **Tsim KWK** (2005). Species identification of Dyers woad leaf by DNA sequences of 5S-rRNA spacer domain and random amplified polymorphic DNA (RAPD). *Oriental Pharmacy and Experimental Medicine.* 5: 117-123.
77. Zhong X, Yang H, Guo ZF, Sin WYF, Chen W, Xu J, Fu L, Wu J, Mak CKG, Cheng CSS, Yang Y, Cao S, Wong TY, Lai ST, Xie Y and **Guo Z** (2005). B cell responses in patients who have recovered from severe acute respiratory syndrome target a dominant site in the S2 domain of the surface spike glycoprotein. *J. Virol.* 79: 3401–3408.
78. Zhou LL, Zhou LY, Luo KQ and **Chang DC** (2005). Smac/DIABLO and Cytochrome c are released from mitochondria through a similar mechanism during UV-induced apoptosis. *Apoptosis.* 10:289-299.