Publications

PUBLICATIONS (total citations about 8,100 & H-index of 52)

Selected Publications

Toloczko, A., Guo, F., Yuen, H.F., Wen, Q., Wood, S.A., Ong, Y.S., Chan. P.Y., Shaik, A.A., Gunaratne J, Dunne MJ, **Hong W**, Chan SW.
Deubiquitinating Enzyme USP9X Suppresses Tumor Growth via LATS Kinase and Core Components of the Hippo Pathway.
Cancer Res. (2017) 77, 4921-4933.

Liu, C.Y., Pobbati, A.V., Huang, Z., Cui, L., and **Hong, W**.
Transglutaminase 2 is a direct target gene of YAP/TAZ-Letter.
Cancer Res. (2017) 77, 4734-4735.

Chakraborty, S., Njah, K., Pobbati, A.V., Lim, Y.B., Raju, A., Lakshmanan, M., Lim, C.T., and **Hong W**.
Agrin as a mechanotransduction signal regulating YAP through the Hippo Pathway.
Cell Reports (2017) 18, 2464-2479.
(Discovered the first link of Agrin to mechanotransduction; highlighted in Trends in Cancer)

Chakraborty, S., Lakshmanan, M., Swa, H.L.F., Chen, J.X., Zhang, X.Q., Ong, Y.S., Loo, L.S., Akıncılar, S.C., Gunaratne, J., Tergaonkar, V., Hui, K.M., **Hong, W**.
An oncogenic role of Agrin in regulating focal adhesion integrity in Hepatocellular carcinoma.
Nature Commun. (2015) 6:6184. doi: 10.1038/ncomms7184
(Defined the role and mechanism of Agrin in Hepatocellular carcinoma and suggested it as a potential diagnostic and therapeutic target)

Loo, L.S., Tang, N., Al-Haddawi, M., Dawe, G.S., and **Hong, W**. A role of sorting nexin 27 in AMPA receptor trafficking.
Nature Commun. (2014) Jan 24;5:3176. doi: 10.1038/ncomms4176.
(Revealed a role of SNX27 in postsynaptic recycling of neurotransmitter receptors)

Chan, S.W., Lim, C.J., Guo, F., Tan, I., Leung, T., and **Hong W**.
Actin-binding and Cell Proliferation Activities of Angiomotin Family Members Are Regulated by Hippo Pathway-mediated Phosphorylation.
J. Biol. Chem. (2013) 288, 37296-37307.
(Highlighted by F1000Prime as being of special significance in its field)

Selected peer-reviewed original research articles (from 1992)

1. Wang, X., Zhao, Y., Zhang, X., Badie, H., Zhou, Y., Mu, Y., Loo, L.S., Cai, L., Thompson, R.C., Yang, B., Chen, Y., Johnson, P.F., Wu, C., Bu, G., Mobley, W.C., Zhang, D., Gage, F.H., Ranscht, B., Zhang, Y.W., Lipton, S.A., **Hong, W.**, and Xu, H.
Loss of sorting nexin 27 contributes to excitatory synaptic dysfunction by modulating glutamate receptor recycling in Down's syndrome.
Nature Medicine (2013) 19, 473-480. (with Cover image and News and Views)

2. Zhu, D., Zhang, Y., Lam, P.P., Dolai, S., Liu, Y., Cai, E.P., Choi, D., Schroer, S.A., Kang, Y., Allister, E.M., Qin, T., Wheeler, M.B., Wang, C.C., **Hong, W.**, Woo, M., Gaisano, H.Y.
Dual Role of VAMP8 in Regulating Insulin Exocytosis and Islet β Cell Growth.
Cell Metabolism (2012) 16, 238-249. (highlighted by A-IMBN research)

3. Pobbati, A.V., Chan, S.W., Lee, I., Song, H., **Hong, W.**
Structural and functional similarity between the Vgll1-TEAD and the YAP-TEAD complexes.
Structure (2012) 20, 1135-1140. (revealed structural similarity of Vgll1-TEAD and YAP-TEAD complexes)
(highlighted by A*STAR research)

4. Chan, S.W., Lim, C.J., Chong, Y.F., Venkatesan Pobbati, A., Huang, C.X., and **Hong, W.**
Hippo pathway-independent regulation of TAZ and YAP by Angiomotin family.
J. Biol. Chem. (2011) 286, 7018-7026. (Identified angiomotin as a novel regulator of TAZ and YAP in the Hippo pathway) (highlighted by A*STAR research)

5. Cai, L., Loo, L.S., and **Hong, W.**
Deficiency of Sorting Nexin 27 (SNX27) Leads to Growth Retardation and Elevated Levels of N-methyl-D-aspartate (NMDA) Receptor 2C (NR2C).
Mol. Cell. Biol. (2011) 31, 1734-1747. (Defined that SNX27 is a general endosomal sorting protein for surface proteins with PDZ-binding motifs) (highlighted by A*STAR research)

6. Chan, S.W., Lim, C.J., Huang, C.X., Chong, Y.F., Gunaratne, H.J., Hogue, K.A., Blackstock, W.P., Harvey, K.F., and **Hong, W.**
WW domain-mediated interaction with Wbp2 is important for the oncogenic property of TAZ.
Oncogene (2011) 30, 600-610. (Showed that Wbp2 is a regulator of the Hippo pathway by acting as a positive factor for TAZ and YAP) (Highlighted by A*STAR research)

7. Yan Shan Ong, Y.S., Tang, B.L., Loo, L.S., and **Hong, W.**

p125A exists as part of the mammalian Sec13-Sec31 COPII subcomplex to facilitate ER-Golgi transport.
J. Cell Biol. (2010) 190, 331-345. (Showed that p125 co-exists with Sec13-Sec31 as a complex to regulate COPII export from the ER) (Highlighted by A*STAR research)

8. Chen, L.M., Chan, S.W., Zhang, X.Q., Walsh, M., Lim, C.J., **Hong, W.**, Song, H.W.
Structural basis of YAP recognition by TEAD4 in the Hippo pathway.
Genes & Dev.(2010) 24, 290-300. (Solved the x-ray structure of YAP-TEAD4 protein complex of the Hippo pathway) (Highlighted by A*STAR research)

9. Wang, C.C., Ng, C.P., Shi, Hong, Liew, H.C., Guo, K., Zeng, Q., and **Hong, W.**
A role of VAMP8/endobrevin in surface deployment of the water channel aquaporin 2.
Mol. Cell. Biol.(2010) 30, 333-343. (Showed that VAMP8 is important for vasopressin-induced surface fusion of AQP-2 vesicles)

10. Liu, N. S., Loo, L.S., Loh, E., Seet, L.F. and **Hong, W.**
Participation of Tom1L1 in EGF-stimulated endocytosis of EGF receptor.
The EMBO J. (2009) 28, 3485-3499. (Showed that Tom1L1 is likely a regulated adaptor for EGF-stimulated endocytosis of EGF receptor) (Highlighted by A*STAR research)

11. Chan, S.W., Lim, C.J., Loo, L.S., Chong, Y.F., Huang, C., and Hong, **Hong, W.**
TEADs mediate nuclear retention of TAZ to promote oncogenic transformation.
J. Biol. Chem. (2009) 284, 14347-14358. (Revealed that interaction with TEAD1-4 is important for TAZ to transform cells)

12. Chan, S.W., Lim, C.J., Guo, K., Ng, C.P., Lee, I., Hunziker, W., Zeng, Q., and **Hong, W.**
A role for TAZ in migration, invasion and tumorigenesis of breast cancer cells.
Cancer Res. (2008) 68, 2592-2598. (Revealed that TAZ is likely a new oncogene for invasive breast cancer)

13. Tran, T.T.H, Zeng, Q., and **Hong, W.**
VAMP4 cycles from the surface to the trans-Golgi network via the sorting and recycling endosome.
J. Cell Sci. (2007) 120, 1028-1041. (Highlighted in This Issue of JCS 120, e601).

14. Wang, C.C., Shi, H., Guo, K., Ng, C.P., Li, J., Gan, B.Q., Liew, H.C., Leinonen, J., Rajaniemi, H., Zhou, Z.H., Zeng, Q., and **Hong, W.**
VAMP8/endobrevin as a general v-SNARE for regulated exocytosis of the exocrine system.

Mol. Biol. Cell (2007) 18, 1056-1063. (Showed that VAMP8 is a major SNARE responsible for regulated exocytosis of the exocrine system)

15. Wu, M.S., Wang, T.L., Loh, E., **Hong, W.**, and Song, H.W.
Structural basis for recruitment of RILP by small GTPase Rab7.
The EMBO J.(2005) 24, 1491-1501. (Resolved the structural basis for Rab7 GTPase interaction with its effector)

16. Wang, C.C., Ng, C.P., Lu, L., Atlashkin, V., Zhang, W., Seet, L.F., and **Hong, W.**
A role of endobrevin/VAMP8 in regulated exocytosis of pancreatic acinar cells.
Dev. Cell (2004) 7, 359-371. (Highlighted in Sept 23, 2004 issue of **Nature** 431, 412).

17. Loh, E., and **Hong, W.**
The binary interacting network of the conserved oligomeric Golgi (COG) tethering complex.
J. Biol. Chem. (2004) 279, 24640-24648. (Defined the interaction map of COG complex)

18. Wu, M., Lu, L., **Hong, W.**, and Song, H.
Structural Basis of Recruitment of GRIP Domain Golgin-245 by Small GTPase Arl1.
Nature Struct. Mol. Biol. (2004) 11, 86-94. (Revealed a novel structural mechanism for small GTPases to interact with effector proteins)

19. Lu, L., and **Hong, W.**
Interaction of Arl1-GTP with GRIP domains recruits autoantigens Golgin-97 and Golgin-245/p230 onto the Golgi.
Mol. Biol. Cell (2003) 14, 3767-3781. (Defined the mechanism for Arl1 GTPase to regulate the Golgi apparatus)

20. Wang, T.L., and **Hong, W.**
Inter-organellar regulation of lysosome positioning by the Golgi apparatus through Rab34 interaction with Rab-interacting lysosomal protein RILP.
Mol. Biol. Cell (2002) 13, 4317-4332. (Defined a mechanism to regulating lysosomal positioning)

21. Loh, E., and **Hong, W.**
Sec34 is involved in ER-Golgi transport in mammalian cells and exists in a complex(s) containing GTC-90 and ldlB.
J. Biol. Chem. (2002) 277, 21955 321961. (Identified a novel protein complex called COG in regulating the Golgi apparatus)

22. Mallard, F., Tang, B.L., Galli, T., Antony, C., Xu, Y., Claude, A., **Hong, W.**, Bruno, G., Johannes, L. Early/recycling endosomes-to-TGN transport involves two SNARE complexes and a Rab6 isoform. **J. Cell Biol.** (2002) 156, 653-664.(Established a role of a novel SNARE complex in endosome-Golgi traffic)

23. Xu, Y., Hortsman, H., Seet, L.F., Wong, S.H., and **Hong, W.**
SNX3 regulates endosomal function via its PX domain-mediated interaction with PtdIns(3)P. **Nature Cell Biology** (2001) 3, 658-666. (Highlighted in June 29, 2001 issue of Cell 105, 817-820 & Aug issue of Nature Cell Biology 3, E179-182).

24. Zhang, T., Wong, S.H., Tang, B.L., Xu, Y., Peter, F., and **Hong, W.**
The mammalian protein (rbet1) homologous to yeast Bet1p is primarily associated with the pre-Golgi intermediate compartment and is involved in vesicular transport from the endoplasmic reticulum to the Golgi apparatus.
J. Cell Biol. (1997) 139, 1157-1168. (Defined the function and mechanism of a novel mammalian SNARE)

25. Lowe, S.L., Peter, F., Subramaniam, V.N., Wong, S.H., and **Hong, W.**
A SNARE involved in protein transport through the Golgi apparatus.
Nature (1997) 389, 881-884. (Identified one of the first few SNAREs of the Golgi apparatus)

26. Xu, Y., Wong, S.H., Zhang Tao, Subramaniam, V.N., and **Hong, W.**
GS15, a 15-kilodalton Golgi SNARE homologous to rbet1.
J. Biol. Chem. (1997) 272, 20162-20166. (Identified one of a novel SNARE of the Golgi apparatus)

27. Tang, B.L., Peter, F., Krijnse-Locker, J., Low, S.H., Griffiths, G., and **Hong, W.**
The mammalian homolog of yeast Sec13p is enriched in the intermediate compartment and is essential for protein transport from the endoplasmic reticulum to the Golgi apparatus.
Mol. Cell Biol. (1997) 17, 256-266. (Showed that vesicle budding from the ER occurs in specific sites)

28. Subramaniam, V.N., Peter, F., Phil, R., and **Hong, W.**
GS28, a 28 kDa Golgi SNARE that participates in ER-Golgi transport.
Science (1996) 272, 1161-1163. (Identified one of the first few SNAREs of the Golgi apparatus)

29. Lowe, S.L., Wong, S.H. and **Hong, W.**
The mammalian ARF-like protein 1 (Arl1) is associated with the Golgi complex.
J Cell Sci. (1996) 109, 209-220. (Revealed for the first time that Arl1 GTPase is present in the Golgi apparatus)

30. Singh, P., Coe, J. and **Hong, W.**
A role for retinoblastoma protein in potentiating transcriptional activation by the glucocorticoid receptor.
Nature (1995) 374, 562-565. (Identified hBrm as a novel interacting protein for retinoblastoma protein)

31. Subramaniam, V.N., Krijnse-Locker, J., Tang, B.L., Ericsson, M., Yosoff, A.R.bin M., Griffiths, G., and **Hong, W.** Monoclonal antibody HFD9 identifies a novel 28 kDa integral membrane protein on the cis-Golgi.
J. Cell Sci. (1995) 108, 2405-2414. (Identified a novel Golgi membrane protein that turned out to be a novel Golgi SNARE)

32. Griffiths, G., Ericsson, M., Krijnse-Locker, J., Nilsson, T., Goud, B., Soling, H-D., Tang, B.L., Wong, S.H., and **Hong, W.**
Localization of the KDEL receptor to the Golgi complex and the intermediate compartment in mammalian cells.
J. Cell Biol. (1994) 127, 1557-1574. (Revealed the compartments of the recycling pathway to retrieve luminal ER proteins)

33. Singh, P., Wong, S.H., and **Hong, W.**
Overexpression of E2F-1 in rat embryo fibroblasts leads to neoplastic transformation.
The EMBO J. (1994) 13, 3329-3338. (Showed that E2F1 is sufficient for oncogenesis)

34. Tang, B.L., Wong, S.H., Qi, X.L., Low, S.H. and **Hong, W.**
Molecular cloning, characterization, subcellular localization and dynamics of p23, the mammalian KDEL receptor.
J. Cell Biol. (1993) 120, 325-338. (Revealed the molecular and***Dev. Cell*** (2004 functional conservation of a recycling pathway to retrieve luminal ER proteins)

35. Low, S.H., Tang, B.L., Wong, S.H., and **Hong, W.**
Selective inhibition of protein targeting to the apical domain of MDCK cells by brefeldin A.
J. Cell Biol. (1992)118, 51-62. (Defined a novel role of brefeldin A in regulating polarized membrane trafficking)

36. Wong, S.H., Low, S.H., and **Hong, W.**
The 17-residue transmembrane domain of b-galactoside a2,6-sialyltransferase is sufficient for Golgi retention.
J. Cell Biol. (1992) 117, 245-258. (Identified one of the first few signals for Golgi targeting of sugar transferases)

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