

Full List of Publications by Shen HM (* as the corresponding author):

2018

180. Wang L, Wang J, Tang Y, **Shen HM***. PTEN-L puts a brake on mitophagy. *Autophagy*. 2018 Aug 14. doi: 10.1080/15548627.2018.1502565. [
179. Zhang J, Wang J, Zhou Z, Park JE, Wang L, Wu S, Sun X, Lu L, Wang T, Lin Q, Sze SK, Huang D, **Shen HM***. Importance of TFEB acetylation in control of its transcriptional activity and lysosomal function in response to histone deacetylase inhibitors. *Autophagy*. 2018;14(6):1043-1059. doi: 10.1080/15548627.2018.1447290. Epub 2018 Jul 30.
178. Wang L, Cho YL, Tang Y, Wang J, Park JE, Wu Y, Wang C, Tong Y, Chawla R, Zhang J, Shi Y, Deng S, Lu G, Wu Y, Tan HW, Pawijit P, Lim GG, Chan HY, Zhang J, Fang L, Yu H, Liou YC, Karthik M, Bay BH, Lim KL, Sze SK, Yap CT, **Shen HM***. PTEN-L is a novel protein phosphatase for ubiquitin dephosphorylation to inhibit PINK1-Parkin-mediated mitophagy. *Cell Res*. 2018 Aug;28(8):787-802. doi: 10.1038/s41422-018-0056-0.
177. Wu S, He Y, Qiu X, Yang W, Liu W, Li X, Li Y, **Shen HM**, Wang R, Yue Z, Zhao Y. Targeting the potent Beclin 1-UVRAG coiled-coil interaction with designed peptides enhances autophagy and endolysosomal trafficking. *Proc Natl Acad Sci U S A*. 2018 Jun 19;115(25):E5669-E5678. doi: 10.1073/pnas.1721173115. Epub 2018 Jun 4.
176. Singh SS, Vats S, Chia AY, Tan TZ, Deng S, Ong MS, Arfuso F, Yap CT, Goh BC, Sethi G, Huang RY, **Shen HM**, Manjithaya R, Kumar AP. Dual role of autophagy in hallmarks of cancer. *Oncogene*. 2018 Mar;37(9):1142-1158. doi: 10.1038/s41388-017-0046-6.
175. Seah KS, Loh JY, Nguyen TTT, Tan HL, Hutchinson PE, Lim KK, Dymock BW, Long YC, Lee EJD, **Shen HM**, Chen ES. SAHA and cisplatin sensitize gastric cancer cells to doxorubicin by induction of DNA damage, apoptosis and perturbation of AMPK-mTOR signalling. *Exp Cell Res*. 2018 Jun 28. pii: S0014-4827(18)30371-9.
174. Zhang J, Wang J, Wong YK, Sun X, Chen Y, Wang L, Yang L, Lu L, **Shen HM**, Huang D. Docetaxel enhances lysosomal function through TFEB activation. *Cell Death Dis*. 2018 May 23;9(6):614. doi: 10.1038/s41419-018-0571-4
173. Chong K, Almshergji ZA, **Shen HM**, Deng Y. Cubic membrane formation supports cell survival of amoeba Chaos under starvation-induced stress. *Protoplasma*. 2018 Mar;255(2):517-525. doi: 10.1007/s00709-017-1169

2017

172. Yan C, Yang Q, **Shen HM**, Spitsbergen JM, Gong Z. Chronically high level of tgfb1a induction causes both hepatocellular carcinoma and cholangiocarcinoma via a dominant Erk pathway in zebrafish. *Oncotarget*. 2017 Aug 18;8(44):77096-77109. doi: 10.18632/oncotarget.20357.
171. Chen L, Yuan Y, Kar S, Kanchi MM, Arora S, Kim JE, Koh PF, Yousef E, Samy RP, Shanmugam MK, Tan TZ, Shin SW, Arfuso F, **Shen HM**, Yang H, Goh BC, Park JI, Gaboury L, Lobie PE, Sethi G, Lim LH, Kumar AP. PPAR γ Ligand-induced Annexin A1 Expression Determines Chemotherapy Response via Deubiquitination of Death Domain Kinase RIP in Triple Negative Breast Cancers. *Mol Cancer Ther*. 2017 Nov;16(11):2528-2542
170. Lu W, Zhang H, Niu Y, Wu Y, Sun W, Li H, Kong J, Ding K, **Shen HM**, Wu H, Xia D, Wu Y. Long non-coding RNA linc00673 regulated non-small cell lung cancer proliferation, migration, invasion and epithelial mesenchymal transition by sponging miR-150-5p. *Mol Cancer*. 2017 Jul 11;16(1):118.
169. Wang JG[#], Zhang JB[#], Shi Y[#], Xu CC[#], Zhang CJ, Wong YK, Lee YM, Krishna S, He YK, Lim TK, Liu B, Hua ZC, **Shen HM***, Lin QS*. (2017). Mechanistic Investigation of the Specific Anticancer Property of Artemisinin and Its Combination with Aminolevulinic Acid for Enhanced Anti-colorectal Cancer Activity. *ACS Central Sciences* (cover story), Jul 26;3(7):743-750
168. Wong YK, Zhang JB, Hua ZC, Lin QS, **Shen HM***, Wang JG*. (2017) Recent Advances in Quantitative and Chemical Proteomics for Autophagy Studies (review). *Autophagy*. Sep 2;13(9):1472-1486
167. Wong YK, Xu CC, Kalesh KA, He YK, Lin QS, Wong WS*, **Shen HM***, Wang JG*. (2017) Artemisinin as an Anti-Cancer Drug: Recent Advances in Target Profiling and Mechanisms of Action. *Med Res Rev*. 2017 Nov;37(6):1492-1517.
166. Cui J, Chew SJ, Shi Y, Gong Z, **Shen HM***. CRISPR system for genome engineering: the application for autophagy study. *BMB Rep*. 2017 May;50(5):247-256.
165. Duan T, Sun W, Zhang M, Ge J, He Y, Zhang J, Zheng Y, Yang W, **Shen HM**, Yang J, Zhu X, Yu P. Dietary restriction protects against diethylnitrosamine-induced hepatocellular tumorigenesis by restoring the disturbed gene expression profile. *Sci Rep*. 2017 Mar 6;7:43745. doi: 10.1038/srep43745.

164. Xu J, Wu Y, Lu G, Xie S, Ma Z, Chen Z, **Shen HM***, Xia D*. Importance of ROS-mediated autophagy in determining apoptotic cell death induced by physapubescin B. *Redox Biol.* 2017 Feb 24;12:198-207.
163. Zhang J, Wang J, Lee YM, Lim TK, Lin Q, **Shen HM***. Proteomic Profiling of De Novo Protein Synthesis in Starvation-Induced Autophagy Using Bioorthogonal Noncanonical Amino Acid Tagging. *Methods Enzymol.* 2017;588:41-59.
162. Wang J, Wong YK, Zhang J, Lee YM, Hua ZC, **Shen HM***, Lin Q. Drug Target Identification Using an iTRAQ-Based Quantitative Chemical Proteomics Approach-Based on a Target Profiling Study of Andrographolide. *Methods Enzymol.* 2017;586:291-309.
161. Wang J, Zhang J, Lee YM, Ng S, Shi Y, Hua ZC, Lin Q, **Shen HM***. Nonradioactive quantification of autophagic protein degradation with L-azidohomoalanine labeling. *Nat Protoc.* 2017; 12(2):279-288
160. Li GB, Fu RQ, **Shen HM**, Zhou J, Hu XY, Liu YX, Li YN, Zhang HW, Liu X, Zhang YH, Huang C, Zhang R, Gao N. Polyphyllin I induces mitophagic and apoptotic cell death in human breast cancer cells by increasing mitochondrial PINK1 levels. *Oncotarget.* 2017 Feb 7;8(6):10359-10374.

2016

159. Zhang Y, Xu YY, Sun WJ, Zhang MH, Zheng YF, **Shen HM**, Yang J, Zhu XQ. FBS or BSA Inhibits EGCG Induced Cell Death through Covalent Binding and the Reduction of Intracellular ROS Production. *Biomed Res Int.* 2016; 5013409.
158. Zhang CJ, Wang J, Zhang J, Lee YM, Feng G, Lim TK, **Shen HM**, Lin Q, Liu B. Mechanism-Guided Design and Synthesis of a Mitochondria-Targeting Artemisinin Analogue with Enhanced Anticancer Activity. *Angew Chem Int Ed Engl.* 2016 Oct 24;55(44):13770-13774.
157. Chen X, Wong YK, Wang J, Zhang J, Lee YM, **Shen HM**, Lin Q, Hua ZC. Target identification with quantitative activity based proteome profiling (ABPP). *Proteomics.* 2016 Oct 10. doi: 10.1002/pmic.201600212.
156. Zhang J, Wang J, Xu J, Lu Y, Jiang J, Wang L, **Shen HM***, Xia D*. Curcumin targets the TFEB-lysosome pathway for induction of autophagy. *Oncotarget.* 2016 Sep 28. doi: 10.18632/oncotarget.12318.
155. Kang K, Won M, Yuk JM, Park CY, Byun HS, Park KA, Lee SR, Kang YG, **Shen HM**, Lee IY, Hur GM. IinQ attenuates systemic inflammatory responses via selectively impairing the Mydosome complex formation upon TLR4 ligation. *Biochem Pharmacol.* 2016 Dec 1;121:52-66.
154. Wang J, Zhang J, Lee YM, Koh PL, Ng S, Bao F, Lin Q, **Shen HM***. Quantitative chemical proteomics profiling of de novo protein synthesis during starvation-mediated autophagy. *Autophagy.* 2016 Oct 2;12(10):1931-1944.
153. Lee Y, Byun HS, Seok JH, Park KA, Won M, Seo W, Lee SR, Kang K, Sohn KC, Lee IY, Kim HG, Son CG, **Shen HM**, Hur GM. Terminalia Chebula provides protection against dual modes of necroptotic and apoptotic cell death upon death receptor ligation. *Sci Rep.* 2016 Apr 27;6:25094. doi: 10.1038/srep25094.
152. Wang C, Hu Q, **Shen HM***. Pharmacological inhibitors of autophagy as novel cancer therapeutic agents. *Pharmacol Res.* 2016, 105:164-175.
151. Klionsky DJ, **Shen HM**, et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy.* 2016 Jan 2;12(1):1-222.
150. Wang J, Zhang J, Zhang CJ, Wong YK, Lim TK, Hua ZC, Liu B, Tannenbaum SR, **Shen HM***, Lin Q*. *In situ* Proteomic Profiling of Curcumin Targets in HCT116 Colon Cancer Cell Line. *Sci Rep.* 2016, Feb 26;6:22146. doi: 10.1038/srep22146.

2015

149. Wang J, Zhang CJ, Chia WN, Loh CC, Li Z, Lee YM, He Y, Yuan LX, Lim TK, Liu M, Liew CX, Lee YQ, Zhang J, Lu N, Lim CT, Hua ZC, Liu B, **Shen HM**, Tan KS, Lin Q. Haem-activated promiscuous targeting of artemisinin in Plasmodium falciparum. *Nat Commun.* 2015 Dec 22;6:10111. Faculty of 1000 recommended as being of exceptional significance (<http://f1000.com/prime/726034996>); Highlighted in *ACS Chemical and Engineering News*, 04 Jan 2016; Highlighted in *NatureAsia*, 23 Dec 2015; Highlighted in *ACS Chemical Biology*, 19 Feb 2016.
148. Chang C, Su H, Zhang D, Wang Y, Shen Q, Liu B, Huang R, Zhou T, Peng C, Wang CCL, **Shen HM**, Lippincott-Schwartz J, Liu W. AMPK-Dependent Phosphorylation of GAPDH Triggers Sirt1 Activation and Is Necessary for Autophagy upon Glucose Starvation. *Mol Cell.* 60, 1-11, 2015.
147. Xiao L, Xian H, Lee KY, Xiao B, Wang H, Yu F, **Shen HM**, Liou YC. Death-associated Protein 3 Regulates Mitochondrial-encoded Protein Synthesis and Mitochondrial Dynamics. *J Biol Chem* 2015 290:24961-74.

146. Ye Z, Al-Aidaros AQ, Park JE, Yuen HF, Zhang SD, Gupta A, Lin Y, **Shen HM**, Zeng Q. PRL-3 activates mTORC1 in Cancer Progression. *Sci Rep*. 2015 Nov 24;5:17046. doi: 10.1038/srep17046.
145. Yu X, Long SC, **Shen HM***. Differential Regulatory Functions of Three Classes of PI3Ks in Autophagy (review). *Autophagy* 2015 Oct 3;11(10):1711-1728.
144. Shi Y, Tan SH, Ng S, Zhou J, Yang ND, McMahon KA, del Pozo MA, Hill MA, Parton RG, Kim YS, **Shen HM***. Caveolin-1 and lipid rafts play a critical role in determining cell stress responses in human breast cancer cells via modulation of autophagy and lysosomal function. *Autophagy* 2015;11(5):769-784.
143. Lee H, Kang SW, Byun HS, Jeon J, Park KA, Kang K, Seo W, Won M, Seok JH, Han MD, **Shen HM**, Hur GM. Brazilin Limits Inflammatory Responses through Induction of Prosurvival Autophagy in Rheumatoid Fibroblast-Like Synoviocytes. *PLoS One*. 2015 Aug 21;10(8):e0136122.
142. Zhou J, Li G, Zheng Y, **Shen HM**, Hu X, Ming QL, Huang C, Li P, Gao N. A novel autophagy/mitophagy inhibitor liensinine sensitizes breast cancer cells to chemotherapy through DNM1L-mediated mitochondrial fission. *Autophagy*. 2015;11(8):1259-79.
141. Cui J, Lu K, Shi Y, Chen B, Tan SH, Gong Z, **Shen HM**. Integrated and comparative miRNA analysis of starvation-induced autophagy in mouse embryonic fibroblasts. *Gene*. 2015 Oct 25;571(2):194-204.
140. Zhang J, Ng S, Wang J, Tan SH, Zhou J, Yang N, Lin Q, Xia D, **Shen HM***. Histone deacetylase inhibitors induce autophagy through FoxO1-dependent pathways. *Autophagy* 2015 Apr 3;11(4):629-42.
139. Cursio R, Colosetti P, Codogno P, Cuervo AM, **Shen HM**. The role of autophagy in liver diseases: mechanisms and potential therapeutic targets. *Biomed Res Int*. 2015;2015:480508. doi: 10.1155/2015/480508. Epub 2015 Mar 1.
138. Wang J, Zhang CJ, Zhang J, He Y, Lee YM, Chen S, Lim TK, Ng S, **Shen HM***, Lin Q. Mapping sites of aspirin-induced acetylations in live cells by quantitative acid-cleavable activity-based protein profiling (QA-ABPP). *Sci Rep*. 2015 Jan 20;5:7896. doi: 10.1038/srep07896.
137. Bao P, Chen Z, Tai R, **Shen HM**, Martin FL, Zhu YG. Selenite-induced Toxicity in Cancer Cells is mediated by Metabolic Generation of Endogenous Selenium Nanoparticles. *J Proteome Res*. 2015 Jan 8.
136. Na Z, Peng B, Ng S, Pan S, Lee JS, **Shen HM**, Yao SQ. A Small-Molecule Protein-Protein Interaction Inhibitor of PARP1 That Targets Its BRCT Domain. *Angew Chem Int Ed Engl*. 2015 Feb 16;54(8):2515-9.
135. Lu GD, Ang YH, Zhou J, Tamilarasi J, Yan B, Lim YC, Srivastava S, Salto-Tellez M, Hui KM, **Shen HM**, Nguyen LN, Tan BC, Silver DL, Hooi SC. CCAAT/enhancer binding protein α predicts poorer prognosis and prevents energy starvation-induced cell death in hepatocellular carcinoma. *Hepatology*. 2015 Mar;61(3):965-978.
- 2014:**
134. Yang ND, Tan SH, Ng S, Shi Y, Zhou J, Tan KS, Wong WS, **Shen HM***. Artesunate induces cell death in human cancer cells via enhancing lysosomal function and lysosomal degradation of ferritin. *J Biol Chem*. 2014 Oct 10. pii:jbc.M114.564567. [Epub ahead of print] PubMed PMID: 25305013.
133. Huang YH, Al-Aidaros AQ, Yuen HF, Zhang SD, **Shen HM**, Rozycka E, McCrudden CM, Tergaonkar V, Gupta A, Lin YB, Thiery JP, Murray JT, Zeng Q. A role of autophagy in PTP4A3-driven cancer progression. *Autophagy*. 2014 Oct 1;10(10):1787-800.
132. Kim DG, Jung KH, Lee DG, Yoon JH, Choi KS, Kwon SW, **Shen HM**, Morgan MJ, Hong SS, Kim YS. 20(S)-Ginsenoside Rg3 is a novel inhibitor of autophagy and sensitizes hepatocellular carcinoma to doxorubicin. *Oncotarget*. 2014 Jun 30;5(12):4438-51. PubMed PMID: 24970805.
131. Tan SZ, Ooi DS, **Shen HM**, Heng CK. The atherogenic effects of serum amyloid A are potentially mediated via inflammation and apoptosis. *J Atheroscler Thromb*. 2014 Aug 26;21(8):854-67.
130. Wang J, Tan XF, Nguyen VS, Yang P, Zhou J, Gao M, Li Z, Lim TK, He Y, Ong CS, Lay Y, Zhang J, Zhu G, Lai SL, Ghosh D, Mok YK, **Shen HM***, Lin Q. A quantitative chemical proteomics approach to profile the specific cellular targets of andrographolide, a promising anticancer agent that suppresses tumor metastasis. *Mol Cell Proteomics*. 2014 Mar;13(3):876-86.
129. Wee LE, Yong YZ, Chng MW, Chew SH, Cheng L, Chua QH, Yek JJ, Lau LJ, Anand P, Hoe JT, **Shen HM**, Koh GC. Individual and area-level socioeconomic status and their association with depression amongst community-dwelling elderly in Singapore. *Aging Ment Health*. 2014 Jul;18(5):628-41.

128. Zhang J, Wang J, Ng S, Lin Q, **Shen HM***. Development of a novel method for quantification of autophagic protein degradation by AHA labeling. *Autophagy*. 2014 May;10(5):901-12. PubMed PMID: 24675368.
127. Tan SH, Shui G, Zhou J, Shi Y, Huang J, Xia D, Wenk MR, **Shen HM***. Critical role of SCD1 in autophagy regulation via lipogenesis and lipid rafts-coupled AKT-FOXO1 signaling pathway. *Autophagy*. 2014 Feb;10(2):226-42.
126. **Shen HM***, Mizushima N. At the end of the autophagic road: an emerging understanding of lysosomal functions in autophagy. *Trends Biochem Sci*. 2014 Feb;39(2):61-71. PubMed PMID: 24369758. Epub 2013/12/29.
125. He W, Wang Q, Srinivasan B, Xu J, Padilla MT, Li Z, Wang X, Liu Y, Gou X, **Shen HM**, Xing C, Lin Y. A JNK-mediated autophagy pathway that triggers c-IAP degradation and necroptosis for anticancer chemotherapy. *Oncogene*. 2014 33(23):3004-13.

2013

124. Zhang J, Wang C, Chen M, Cao J, Zhong Y, Chen L, **Shen HM**, Xia D. Epigenetic silencing of glutaminase 2 in human liver and colon cancers. *BMC Cancer*. 2013 Dec 14;13:601. doi: 10.1186/1471-2407-13-601. PubMed PMID: 24330717
123. Zhang T, Ah Park K, Li Y, Sun Byun H, Jeon J, Lee Y, Hee Hong J, Man Kim J, Huang SM, Choi SW, Kim SH, Sohn KC, Ro H, Hoon Lee J, Lu T, Stark GR, **Shen HM**, Liu ZG, Park J, Min Hur G. PHF20 regulates NF- κ B signalling by disrupting recruitment of PP2A to p65. *Nat Commun*. 2013 Jun 25;4:2062. doi:10.1038/ncomms3062. PubMed PMID: 23797602.
122. Li Z, Hao P, Li L, Tan CY, Cheng X, Chen GY, Sze SK, **Shen HM**, Yao SQ. Design and Synthesis of Minimalist Terminal Alkyne-Containing Diazirine Photo-Crosslinkers and Their Incorporation into Kinase Inhibitors for Cell- and Tissue-Based Proteome Profiling. *Angew Chem Int Ed Engl*. 2013 Jun 10. doi: 10.1002/anie.201300683.
121. Zhou J, Tan SH, Codogno P, **Shen HM***. Dual suppressive effect of MTORC1 on autophagy: tame the dragon by shackling both the head and the tail. *Autophagy*. 2013 May;9(5):803-5.
120. Cui J, Gong Z, **Shen HM***. The role of autophagy in liver cancer: Molecular mechanisms and potential therapeutic targets. *Biochim Biophys Acta*. 2013 Aug;1836(1):15-26.
119. Wen YD, Wang H, Kho SH, Rinkiko S, Sheng X, **Shen HM**, Zhu YZ. Hydrogen sulfide protects HUVECs against hydrogen peroxide induced mitochondrial dysfunction and oxidative stress. *PLoS One*. 2013;8(2):e53147. doi: 10.1371/journal.pone.0053147.
118. Zhou J, Tan SH, Nicolas V, Bauvy C, Yang ND, Zhang J, Xue Y, Codogno P, **Shen HM***. Activation of lysosomal function in the course of autophagy via mTORC1 suppression and autophagosome-lysosome fusion. *Cell Res*. 2013 Apr;23(4):508-23. doi: 10.1038/cr.2013.11. Epub 2013 Jan 22.
117. Zhou J, Ng S, Huang Q, Wu YT, Li Z, Yao SQ, **Shen HM***. AMPK mediates a pro-survival autophagy downstream of PARP-1 activation in response to DNA alkylating agents. *FEBS Lett*. 2013 Jan 16;587(2):170-7. doi:10.1016/j.febslet.2012.11.018.

2012

116. Zhang Y, Yang ND, Zhou F, Shen T, Duan T, Zhou J, Shi Y, Zhu XQ, **Shen HM***. (-)-Epigallocatechin-3-gallate induces non-apoptotic cell death in human cancer cells via ROS-mediated lysosomal membrane permeabilization. *PLoS One*. 2012;7(10):e46749. doi: 10.1371.
115. Chen, B., Sun, X., Zhang, Y., Zhu, X.Q., and **Shen, H.M***. (2012). Use of inducible Atg5 deletion and expression cell lines in study of the pro-survival function of autophagy under starvation. *Biochem Biophys Res Commun*. 2012 Aug 30. [Epub ahead of print]
114. Wee LE, Yeo WX, Yang GR, Hannan N, Lim K, Chua C, Tan MY, Fong N, Yeap A, Chen L, Koh GC, **Shen HM**. Individual and Area Level Socioeconomic Status and Its Association with Cognitive Function and Cognitive Impairment (Low MMSE) among Community-Dwelling Elderly in Singapore. *Dement Geriatr Cogn Dis Extra*. 2012 Jan;2(1):529-42.
113. Zhang, T., Qi, Y., Liao, M., Xu, M., Bower, K., Frank, J., **Shen, H.M.**, Luo, J., Shi, X., and Chen, G. (2012). Autophagy is a cell self-protective mechanism against arsenic-induced cell transformation. *Toxicological Sciences*. 2012 Aug 30. [Epub ahead of print]
112. Lin, T.C., Chen, Y.R., Kensicki, E., Li, A.Y., Kong, M., Li, Y., Mohney, R.P., **Shen, H.M.**, Stiles, B., Mizushima, N., *et al.* (2012). Autophagy: Resetting glutamine-dependent metabolism and oxygen consumption. *Autophagy* 8, 1477-1493.
111. Cui, J., Sim, T.H.F., Gong, Z*, **Shen, HM***. **Generation of transgenic zebrafish with liver-specific expression of EGFP-Lc3: A new in vivo model for investigation of liver autophagy.** *Biochem Biophys Res Commun*, 422:268-273, 2012

110. Klionsky, D.J., Abdalla, F.C., Abeliovich, H., Abraham, R.T., Acevedo-Arozena, A., Adeli, K., Agholme, L., Zuckerbraun, B....**Shen HM**...et al Guidelines for the use and interpretation of assays for monitoring autophagy *Autophagy*, **8**:445-544, 2012
- 109. Shen HM***, Codogno P. Cross talks between autophagy and necrotic cell death. *Exp Cell Res* (invited review) 318 (11): 1304-1308, 2012
108. Zhang T, Li Y, Park KA, Byun HS, Won M, Seok JH, Lee SH, Lee ZW, **Shen HM**, Hur GM. Cucurbitacin induces autophagy through mitochondrial ROS production which counteracts to limit caspase-dependent apoptosis *Autophagy* 8(4):559-576, 2012
107. Tan SH, Shui GH, Zhou J, Wenk MR*, **Shen HM***. Induction of autophagy by palmitic acid via protein kinase C-mediated signaling pathway independent of mTOR (mammalian target of rapamycin). *JBC* 287 (18):14364-14376, 2012
106. Zhou J, Hu SE, Tan SH, Cao R, Chen Y, Xia DJ, Zhu XQ, Yang XF, Ong CN, **Shen HM***. Andrographolide sensitizes cisplatin-induced apoptosis via suppression of autophagosome-lysosome fusion in human cancer cells. *Autophagy* 8:338-349, 2012
105. Zhao J and **Shen HM***. Targeting p53 as a novel strategy in sensitizing TRAIL-induced apoptosis in cancer cells. *Cancer Lett* 314(1):8-23, 2012.
104. Lu JH, Tan JQ, Durairajan SS, Liu LF, Zhang ZH, Ma L, **Shen HM**, Chan HY, Li M. Isorhynchophylline, a natural alkaloid, promotes the degradation of alpha-synuclein in neuronal cells via inducing autophagy. *Autophagy* 8:98-108, 2012
- 2011**
103. Ng SK, Chen B, Wu YT, Zhou J, **Shen HM***. Constitutive mTOR activation suppresses autophagy and sensitizes TSC2-null cells to cell death. *Autophagy* Oct 1; 7(10):1173-86. 2011
102. Chew KC, Ang ET, Tai YK, Tsang F, Lo SQ, Ong E, Ong WY, **Shen HM**, Lim KL, Dawson VL, Dawson TM, Soong TW. Enhanced autophagy from chronic toxicity of iron and mutant A53T {alpha}-synuclein: Implications for neuronal cell death in Parkinson's disease. *J Biol Chem*. 286(38):33380-9; 2011.
101. Wu YT, Ouyang W, Lazorchak AS, Liu D, **Shen HM***, Su B. mTOR Complex 2 Targets Akt for Proteasomal Degradation via Phosphorylation at the Hydrophobic Motif. *J Biol Chem*. 286:14190-14198, 2011 (co-corresponding author)
100. Wu YT, Tan HL, Huang Q, Ong CN, **Shen HM***. ZVAD-induced necroptosis in L929 cells depends on autocrine production of TNF? mediated by the PKC-MAPKs-AP-1 pathway. *Cell Death and Differentiation* 18:26-37, 2011.
- 99. Shen HM***, P Codogno. Autophagic cell death: Loch Ness monster or endangered species? (review) *Autophagy*, 7:457-465. 2011
98. Li X, Wang JN, Huang JM, Xiong XK, Chen MF, Ong CN, **Shen HM**, Yang XF. Chrysin promotes tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL) induced apoptosis in human cancer cell lines. *Toxicol In Vitro*. ;25(3):630-5. 2011
- 2010 and earlier**
97. Ong CS, Zhou J, Ong CN, **Shen HM***. Luteolin induces G1 arrest in human nasopharyngeal carcinoma cells via the Akt-GSK-3beta-Cyclin D1 pathway. *Cancer Lett*. 298(2):167-75; 2010.
96. Won M, Sohn KC, Park KA, Byun HS, Ryu YS, Junn J, Kim YK, Hong JH, Jang JS, Yoon WH, **Shen HM**, Liu ZG, Hur GM. The ubiquitin-editing enzyme A20 is a key element in the NF-kB-mediated control of the JNK cascade through targeting ASK1 degradation in anti-apoptotic signaling downstream of TNF receptor. *Cell Death and Differentiation* 17:1830-1841, 2010
95. Wu YT, Tan HL, Shi GH, Bauvy C, Huang Q, Wenk MR, Ong CN, Codogno P, **Shen HM***. Dual role of 3-methyladenine on modulation of autophagy via different temporal patterns on Class I and III PI3K. *J Biol Chem* 285:10850-10861, 2010 (this article was featured in **Faulty of 1000 Biology** (<http://f1000biology.com/article/id/3091959/evaluation>))
94. Zhou J, Ong CN, Hur GM, **Shen HM***. Inhibition of the JAK-STAT3 Pathway by Andrographolide Enhances Chemo-Sensitivity of Cancer Cells to Doxorubicin. *Biochem Pharmacol* 79:1242-1250, 2010
93. Li X, Huang Q, Ong CN, Yang XF, **Shen HM***. Chrysin sensitizes tumor necrosis factor- α -induced apoptosis in human tumor cells via suppression of nuclear factor- κ B. *Cancer Lett* 293:109-116 2010
92. Chow WH, Chang P, Lee SC, Wong A, **Shen HM**, Verkooijen HM. Complementary and alternative medicine among Singapore cancer patients. *Ann Acad Med Singapore*. 39:129-135, 2010
91. Wu YT, Tan HL, Huang Q, Ong CN, **Shen HM***. Activation of the PI3K-Akt-mTOR Signaling Pathway Promotes Necrotic Cell Death via Suppression of Autophagy. *Autophagy* 5: 824-834, 2009.

90. **Shen HM***, Tergaonkar V. NFkappaB signaling in carcinogenesis and as a potential molecular target for cancer therapy. *Apoptosis* **14**:348-363, 2009. (invited review)
89. Won M, Park KA, Byun HS, Kim YR, Choi BL, Hong JH, Park J, Seok JH, Lee YH, Cho CH, Song IS, Kim YK, **Shen HM**, Hur GM. Protein kinase SGK1 enhances MEK/ERK complex formation through the phosphorylation of ERK2: Implication for the positive regulatory role of SGK1 on the ERK function during liver regeneration. *J Hepatol.* 51:67-76, 2009
88. Huang Q, **Shen HM*** To die or to live: The dual role of poly(ADP-ribose) polymerase-1 in autophagy and necrosis under oxidative stress and DNA damage. *Autophagy* **5**:273-276, 2009.
87. Lin Y, Shi R, Wang X, **Shen HM**. Luteolin, a flavonoid with potentials for cancer prevention and therapy (invited review). *Current Cancer Drug Targets* **8**:634-646, 2008.
86. Wu YT, Tan HL, Huang Q, Kim YS, Pan N, Ong WY, Liu ZG, Ong CN, **Shen HM***. Autophagy plays a protective role during zVAD-induced necrotic cell death. *Autophagy* **4**:457-466, 2008. **This article was accompanied by a Commentary from the Associate Editor published together in the same issue White E. Autophagic cell death unraveled: Pharmacological inhibition of apoptosis and autophagy enables necrosis. Autophagy. 2008 May 16;4(4):399-401. Epub 2008 Mar 13.**
85. Cheng L, Tan H, Wu X, Hu R, Aw C, Zhao M, **Shen HM***, Lu Y. Novel synthetic luteolin analogue-caused sensitization of tumor necrosis factor-alpha-induced apoptosis in human tumor cells. *Org Biomol Chem.* **6**:4102-4104, 2008.
84. Zhou J, Lu GD, Ong CS, Ong CN, **Shen HM***. Andrographolide Sensitizes Cancer Cells to TRAIL-Induced Apoptosis via p53-Mediated DR4 Up-regulation. *Mol Cancer Therap* **7**:2170-2180, 2008.
83. Shi J; **Shen HM***. Critical role of Bid and Bax in I3M-induced apoptosis in human cancer cells. *Biochem Pharmacol* **75**:1729-1742, 2008.
82. Wu YT, Zhang SY, Kim YS, Tan HL, Whiteman M, Ong CN, Liu ZG, Ichijo H, **Shen HM***. Signaling Pathways from Membrane Lipid Rafts to JNK1 Activation in Reactive Nitrogen Species-Induced Non-Apoptotic Cell Death. *Cell Death and Differentiation* **15**:386-397, 2008.
81. Liu ZM, Li LQ, Peng MH, Liu TW, Qin Z, Guo Y, Xiao KY, Ye XP, Mo XS, Qin X, Li S, Yan LN, **Shen HM**, Wang L, Wang Q, Wang KB, Liang RX, Wei ZL, Ong CN, Santella RM, Peng T. Hepatitis B virus infection contributes to oxidative stress in a population exposed to aflatoxin B1 and high-risk for hepatocellular carcinoma. *Cancer Lett.* **263**:212-222, 2008.
80. Lu GD, **Shen H.M.**, Chung M. Ong CN. Critical role of ROS and sustained JNK activation in Aloe-emodin-induced apoptotic cell death in cancer cells. *Carcinogenesis* **28**:1937-1945, 2007.
79. Lu GD, **Shen HM**, Ong CN, Chung M. Anticancer effects of aloe-emodin on HepG2 cells: Cellular and proteomic studies. *Proteomics* **1**: 410-419, 2007
78. Zhang, S.Y.; Lin Y; Kim, Y.,S.; Liu, Z.,G.; Ong, C.N.; **Shen, H.M.***. c-Jun N-terminal Kinase Mediates Hydrogen Peroxide-Induced Cell Death via Sustained Poly(ADP-ribose) Activation. *Cell Death Differ* **14**:1001-1010; 2007
77. Shi RX, Huang Q, Zhu X, Ong YB, Zhao B, Lu J, Ong CN, **Shen H.M.***. Luteolin sensitizes the anticancer effect of cisplatin via c-Jun NH2-terminal kinase-mediated p53 phosphorylation and stabilization. *Mol Cancer Ther.* **6**:1338-1347; 2007
76. Du HY, Olivo M, Mahendran R, Huang Q, **Shen H.M.**, Ong CN, Bay BH. Hypericin photoactivation triggers down-regulation of matrix metalloproteinase-9 expression in well-differentiated human nasopharyngeal cancer cells. *Cell Mol Life Sci.* **64**:979-988; 2007.
75. Peng T, Li LQ, Peng MH, Liu ZM, Liu TW, Guo Y, Xiao KY, Qin Z, Ye XP, Mo XS, Yan LN, Lee BL, **Shen H.M.**, Tamae K, Wang LW, Wang Q, Khan KM, Wang KB, Liang RX, Wei ZL, Kasai H, Ong CN, Santella RM. Evaluation of oxidative stress in a group of adolescents exposed to a high level of aflatoxin B1--a multi-center and multi-biomarker study. *Carcinogenesis* **28**:2347-2354, 2007.
74. Peng T, Li LQ, Peng MH, Liu ZM, Liu TW, Yan LN, **Shen H.M.**, Wang L, Wang Q, Wang KB, Liang RX, Wei ZL, Ong CN, Santella RM. Is correction for protein concentration appropriate for protein adduct dosimetry? Hypothesis and clues from an aflatoxin B1-exposed population. *Cancer Sci.* **98**:140-146, 2007.
73. Huang, Q., Lu, G., **Shen, H. M.**, Chung, M. C., and Ong, C. N. Anti-cancer properties of anthraquinones from Rhubarb. *Med Res Rev.* **27**:609-630; 2007.
72. Lai JP, Lim YH, Su J, **Shen H.M.**, Ong CN. Identification and characterization of major flavonoids and caffeoylquinic acids in three Compositae plants by LC/DAD-APCI/MS. *J Chromatogr B Analyt Technol Biomed Life Sci.* **848**:215-225, 2007.
71. Wu XY, Jiang ZQ, Shen H.M., Lu YX. Highly efficient threonine-derived organocatalysts for direct asymmetric aldol reactions in water. *Adv Synthesis Catalysis* **349**:812-816, 2007

70. Song, L., Li, J., Zhang, D., Liu, Z. G., Ye, J., Zhan, Q., **Shen, H. M.**, Whiteman, M., and Huang, C. IKK β programs to turn on the GADD45 α -MKK4-JNK apoptotic cascade specifically via p50 NF- κ B in arsenite response. *J Cell Biol* **175**, 607-617; 2006.
69. Huang Q, **Shen H.M.**, Shui G, Wenk M.R, Ong C.N. Emodin Inhibits Tumor Cell Adhesion through Disruption of the Membrane Lipid Rafts-associated Integrin Signaling Pathway. *Cancer Res* **66**:5807-5815; 2006.
- 68. Shen H.M.***; Pervaiz, S. TNF-Receptor Superfamily-Induced Cell Death: Redox-Dependent Execution (invited review) *FASEB J.* **20**:1589-1598; 2006.
67. Zhang, S.; Li, Z.; Wu, X.; Huang, Q.; **Shen, H.M.**; Ong, C. N. Methyl 3-indolylacetate inhibits cancer cell invasion by targeting the MEK1/2 - ERK1/2 signaling pathway. *Mol Cancer Therapeutic* **5**:3285-3293 (2006).
66. Zhou J, Zhang S, Ong CN, **Shen H.M.***. Critical role of pro-apoptotic Bcl-2 family members in andrographolide-induced apoptosis in human cancer cells. *Biochem Pharmacol* **72**:132-144; 2006.
65. Bi, X.; Lin, Q.; Foo, T.W.; Joshi, S.; You, T.; **Shen, H.M.**; Ong, C.N.; Cheah, P.Y.; **Eu, K.W.**; and Hew, C.L. Proteomics analysis of colorectal cancer reveals alterations in metabolic pathways – mechanism of tumorigenesis. *Mol. Cell. Proteomics* **5**:1119-1130; 2006.
- 64. Shen, H.M.***; Liu, Z.G. JNK Signaling Pathway is a Key Modulator in Cell Death Mediated by Reactive Oxygen and Nitrogen Species (review). *Free Radic. Biol. Med.* **40**:928-939; 2006.
63. Zhang, S.; **Shen, H. M.**; Ong, C. N. Down-regulation of c-FLIP contributes to the sensitization effect of 3,3'-diindolylmethane on TRAIL-induced apoptosis in cancer cells. *Mol. Cancer Ther.* **4**:1972-1981; 2005.
62. Shi, R. X.; Ong, C. N.; **Shen, H.M.***. Protein kinase C inhibition and x-linked inhibitor of apoptosis protein degradation contribute to the sensitization effect of luteolin on tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis in cancer cells. *Cancer Res.* **65**:7815-7823; 2005.
61. Won, Y. K.; Ong, C. N.; **Shen, H.M.*** . Parthenolide sensitizes ultraviolet (UV)-B-induced apoptosis via protein kinase C-dependent pathways. *Carcinogenesis.* **26**:2149-2156; 2005.
60. Zhang, S.; Won, Y. K.; Ong, C. N.; **Shen, H.M.*** Anti-cancer potential of sesquiterpene lactones: bioactivity and molecular mechanisms (invited review). *Curr. Med. Chem. Anticancer Agents.* **5**:239-249; 2005.
59. Yew, Y. W.; Saw, S. M.; Pan, J. C.; **Shen, H. M.**; Lwin, M.; Yew, M. S.; Heng, W. J. Knowledge and beliefs on corneal donation in Singapore adults. *Br. J. Ophthalmol.* **89**:835-840; 2005.
58. Huang, Q.; **Shen, H. M.**; Ong, C. N. Emodin inhibits tumor cell migration through suppression of the phosphatidylinositol 3-kinase-Cdc42/Rac1 pathway. *Cell Mol. Life Sci.* **62**:1167-1175; 2005.
57. Peng, T, Liu Z.M., Liu, T.W., Li, L.Q., Peng, M.H., Qin, X., Yan, L.N., Liang, R.X., Wei, Z.L., Wang, L.W., Wang, Q., Shen, H.M., Ong, C.N., Santella, R.M. Associated factors in modulating aflatoxin B-1-albumin adduct level in three Chinese populations. *Dig. Dis. Sci.* **50**: 525-532; 2005.
56. Rose, P., Moore, P. K. **Shen H.M.**, Ong, C.N., Armstrong J. S., and Whiteman M. Hydrogen Sulfide Protects Colon Cancer Cells from Chemopreventative Agent Beta-Phenylethyl Isothiocyanate Induced Apoptosis. *World J Gastroenterol* **11**: 3990-3997; 2005.
55. Wong, M. L.; Chia, K. S.; Wee, S.; Chia, S. E.; Lee, J.; Koh, W. P.; **Shen, H.M.**; Thumboo, J.; Sofjan, D. Concerns over participation in genetic research among Malay-Muslims, Chinese and Indians in Singapore: a focus group study. *Community Genet.* **7**:44-54; 2004.
54. Shi, R. X.; Ong, C. N.; **Shen, H.M.*** Luteolin sensitizes tumor necrosis factor-alpha-induced apoptosis in human tumor cells. *Oncogene.* **23**:7712-7721; 2004.
53. Zhang, S.; Lin, Z. N.; Yang, C. F.; Shi, X.; Ong, C. N.; **Shen, H.M.*** Suppressed NF-kappaB and sustained JNK activation contribute to the sensitization effect of parthenolide to TNF-alpha-induced apoptosis in human cancer cells. *Carcinogenesis.* **25**:2191-2199; 2004.
52. Zhang, S.; Ong, C. N.; **Shen, H.M.***. Involvement of proapoptotic Bcl-2 family members in parthenolide-induced mitochondrial dysfunction and apoptosis. *Cancer Lett.* **211**:175-188; 2004.
- 51. Shen, H. M.**; Lin, Y.; Choksi, S.; Tran, J.; Jin, T.; Chang, L.; Karin, M.; Zhang, J.; Liu, Z. G. Essential roles of receptor-interacting protein and TRAF2 in oxidative stress-induced cell death. *Mol. Cell Biol.* **24**:5914-5922; 2004.
50. Huang, Q.; **Shen, H. M.**; Ong, C. N. Inhibitory effect of emodin on tumor invasion through suppression of activator protein-1 and nuclear factor-kappaB. *Biochem. Pharmacol.* **68**:361-371; 2004.
49. Zhang, S.; Ong, C. N.; **Shen, H.M.***. Critical roles of intracellular thiols and calcium in parthenolide-induced apoptosis in human colorectal cancer cells. *Cancer Lett.* **208**:143-153; 2004.

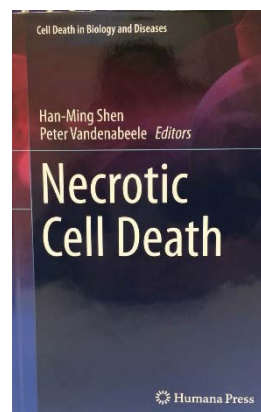
48. Won, Y. K.; Ong, C. N.; Shi, X.; **Shen, H.M.***. Chemopreventive activity of parthenolide against UVB-induced skin cancer and its mechanisms. *Carcinogenesis*. **25**:1449-1458; 2004.
47. Lin, Y.; Choksi, S.; **Shen, H. M.**; Yang, Q. F.; Hur, G. M.; Kim, Y. S.; Tran, J. H.; Nedospasov, S. A.; Liu, Z. G. Tumor necrosis factor-induced nonapoptotic cell death requires receptor-interacting protein-mediated cellular reactive oxygen species accumulation. *J. Biol. Chem.* **279**:10822-10828; 2004.
46. Peng, T.; **Shen, H. M.**; Liu, Z. M.; Yan, L. N.; Peng, M. H.; Li, L. Q.; Liang, R. X.; Wei, Z. L.; Halliwell, B.; Ong, C. N. Oxidative DNA damage in peripheral leukocytes and its association with expression and polymorphisms of hOGG1: a study of adolescents in a high risk region for hepatocellular carcinoma in China. *World J. Gastroenterol.* **9**:2186-2193; 2003.
45. Xu, D. X.; Zhu, Q. X.; Zheng, L. K.; Wang, Q. N.; **Shen, H. M.**; Deng, L. X.; Ong, C. N. Exposure to acrylonitrile induced DNA strand breakage and sex chromosome aneuploidy in human spermatozoa. *Mutat. Res.* **537**:93-100; 2003.
44. Xu, D. X.; **Shen, H. M.**; Zhu, Q. X.; Chua, L.; Wang, Q. N.; Chia, S. E.; Ong, C. N. The associations among semen quality, oxidative DNA damage in human spermatozoa and concentrations of cadmium, lead and selenium in seminal plasma. *Mutat. Res.* **534**:155-163; 2003.
43. Ong, C. N.; **Shen, H. M.**; Chia, S. E. Biomarkers for male reproductive health hazards: are they available? (invited review) *Toxicol. Lett.* **134**:17-30; 2002.
42. **Shen, H. M.**; Ding, W. X.; Ong, C. N. Intracellular glutathione is a cofactor in methylseleninic acid-induced apoptotic cell death of human hepatoma HEPG(2) cells. *Free Radic. Biol. Med.* **33**:552-561; 2002.
41. **Shen, H. M.**; Dai, J.; Chia, S. E.; Lim, A.; Ong, C. N. Detection of apoptotic alterations in sperm in subfertile patients and their correlations with sperm quality. *Hum. Reprod.* **17**:1266-1273; 2002.
40. Ding, W. X.; **Shen, H. M.**; Ong, C. N. Calpain activation after mitochondrial permeability transition in microcystin-induced cell death in rat hepatocytes. *Biochem. Biophys. Res. Commun.* **291**:321-331; 2002.
39. Ding, W. X.; **Shen, H. M.**; Ong, C. N. Critical role of reactive oxygen species formation in microcystin-induced cytoskeleton disruption in primary cultured hepatocytes. *J. Toxicol. Environ. Health A.* **64**:507-519; 2001.
38. Liu, J.; **Shen, H. M.**; Ong, C. N. Role of intracellular thiol depletion, mitochondrial dysfunction and reactive oxygen species in Salvia miltiorrhiza-induced apoptosis in human hepatoma HepG2 cells. *Life Sci.* **69**:1833-1850; 2001.
37. Dong, S.; **Shen, H. M.**; Ong, C. N. Cadmium-induced apoptosis and phenotypic changes in mouse thymocytes. *Mol. Cell Biochem.* **222**:11-20; 2001.
36. Ding, W. X.; **Shen, H. M.**; Ong, C. N. Pivotal role of mitochondrial Ca(2+) in microcystin-induced mitochondrial permeability transition in rat hepatocytes. *Biochem. Biophys. Res. Commun.* **285**:1155-1161; 2001.
35. Liu, J.; Yang, C. F.; Wasser, S.; **Shen, H. M.**; Tan, C. E.; Ong, C. N. Protection of salvia miltiorrhiza against aflatoxin-B1-induced hepatocarcinogenesis in Fischer 344 rats dual mechanisms involved. *Life Sci.* **69**:309-326; 2001.
34. Wang, S. L.; Wang, X. R.; Chia, S. E.; **Shen, H. M.**; Song, L.; Xing, H. X.; Chen, H. Y.; Ong, C. N. A study on occupational exposure to petrochemicals and smoking on seminal quality. *J. Androl.* **22**:73-78; 2001.
33. **Shen, H. M.**; Dong, S. Y.; Ong, C. N. Critical role of calcium overloading in cadmium-induced apoptosis in mouse thymocytes. *Toxicol. Appl. Pharmacol.* **171**:12-19; 2001.
32. **Shen, HM***; Yang, C. F.; Ding, W. X.; Liu, J.; Ong, C. N. Superoxide radical-initiated apoptotic signalling pathway in selenite-treated HepG(2) cells: mitochondria serve as the main target. *Free Radic. Biol. Med.* **30**:9-21; 2001.
31. **Shen, H. M.**; Zhang, Z.; Zhang, Q. F.; Ong, C. N. Reactive oxygen species and caspase activation mediate silica-induced apoptosis in alveolar macrophages. *Am. J. Physiol Lung Cell Mol. Physiol.* **280**:L10-L17; 2001.
30. Yang, C. F.; Liu, J.; Wasser, S.; **Shen, H. M.**; Tan, C. E.; Ong, C. N. Inhibition of ebselen on aflatoxin B(1)-induced hepatocarcinogenesis in Fischer 344 rats. *Carcinogenesis*. **21**:2237-2243; 2000.
29. Ding, W. X.; **Shen, H. M.**; Ong, C. N. Critical role of reactive oxygen species and mitochondrial permeability transition in microcystin-induced rapid apoptosis in rat hepatocytes. *Hepatology*. **32**:547-555; 2000.

28. Yang, C. F.; **Shen, H. M.**; Ong, C. N. Intracellular thiol depletion causes mitochondrial permeability transition in ebselen-induced apoptosis. *Arch. Biochem. Biophys.* **380**:319-330; 2000.
27. Huang, C.; Zhang, Z.; Ding, M.; Li, J.; Ye, J.; Leonard, S. S.; **Shen, H. M.**; Butterworth, L.; Lu, Y.; Costa, M.; Rojanasakul, Y.; Castranova, V.; Vallyathan, V.; Shi, X. Vanadate induces p53 transactivation through hydrogen peroxide and causes apoptosis. *J. Biol. Chem.* **275**:32516-32522; 2000.
26. Ding, W. X.; **Shen, H. M.**; Ong, C. N. Microcystic cyanobacteria extract induces cytoskeletal disruption and intracellular glutathione alteration in hepatocytes. *Environ. Health Perspect.* **108**:605-609; 2000.
25. Yang, C. F.; Liu, J.; **Shen, H. M.**; Ong, C. N. Protective effect of ebselen on aflatoxin B1-induced cytotoxicity in primary rat hepatocytes. *Pharmacol. Toxicol.* **86**:156-161; 2000.
24. Liu, J.; **Shen, H. M.**; Ong, C. N. Salvia miltiorrhiza inhibits cell growth and induces apoptosis in human hepatoma HepG(2) cells. *Cancer Lett.* **153**:85-93; 2000.
23. Zhang, Z.; **Shen, H. M.**; Zhang, Q. F.; Ong, C. N. Involvement of oxidative stress in crystalline silica-induced cytotoxicity and genotoxicity in rat alveolar macrophages. *Environ. Res.* **82**:245-252; 2000.
22. Yang, C. F.; **Shen, H. M.**; Ong, C. N. Ebselen induces apoptosis in HepG(2) cells through rapid depletion of intracellular thiols. *Arch. Biochem. Biophys.* **374**:142-152; 2000.
21. **Shen, H.M.***; Yang, C.; Liu, J.; Ong, C.N. Dual role of glutathione in selenite-induced oxidative stress and apoptosis in human hepatoma cells. *Free Radic. Biol. Med.* **28**:1115-1124; 2000.
20. **Shen, H.M.***; Ong, C.N. Detection of oxidative DNA damage in human sperm and its association with sperm function and male infertility (invited review). *Free Radic. Biol. Med.* **28**:529-536; 2000.
19. Liu, J.; Yang, C. F.; Lee, B. L.; **Shen, H. M.**; Ang, S. G.; Ong, C. N. Effect of Salvia miltiorrhiza on aflatoxin B1-induced oxidative stress in cultured rat hepatocytes. *Free Radic. Res.* **31**:559-568; 1999.
18. **Shen, H. M.**; Chia, S. E.; Ong, C. N. Evaluation of oxidative DNA damage in human sperm and its association with male infertility. *J. Androl.* **20**:718-723; 1999.
17. Zhang, Z.; **Shen, H. M.**; Zhang, Q. F.; Ong, C. N. Critical role of GSH in silica-induced oxidative stress, cytotoxicity, and genotoxicity in alveolar macrophages. *Am. J. Physiol.* **277**:L743-L748; 1999.
16. Ding, W. X.; **Shen, H. M.**; Zhu, H. G.; Lee, B. L.; Ong, C. N. Genotoxicity of microcystic cyanobacteria extract of a water source in China. *Mutat. Res.* **442**:69-77; 1999.
15. **Shen, H.M.***; Yang, C. F.; Ong, C. N. Sodium selenite-induced oxidative stress and apoptosis in human hepatoma HepG2 cells. *Int. J. Cancer.* **81**:820-828; 1999.
14. Yang, C. F.; **Shen, H. M.**; Ong, C. N. Protective effect of ebselen against hydrogen peroxide-induced cytotoxicity and DNA damage in HepG2 cells. *Biochem. Pharmacol.* **57**:273-279; 1999.
13. Ding, W. X.; **Shen, H. M.**; Shen, Y.; Zhu, H. G.; Ong, C. N. Microcystic cyanobacteria causes mitochondrial membrane potential alteration and reactive oxygen species formation in primary cultured rat hepatocytes. *Environ. Health Perspect.* **106**:409-413; 1998.
12. Ding, W. X.; **Shen, H. M.**; Zhu, H. G.; Ong, C. N. Studies on oxidative damage induced by cyanobacteria extract in primary cultured rat hepatocytes. *Environ. Res.* **78**:12-18; 1998.
11. Ni, Z. Y.; Liu, Y. Q.; **Shen, H. M.**; Chia, S. E.; Ong, C. N. Does the increase of 8-hydroxydeoxyguanosine lead to poor sperm quality? *Mutat. Res.* **381**:77-82; 1997.
10. **Shen, H. M.**; Chia, S. E.; Ni, Z. Y.; New, A. L.; Lee, B. L.; Ong, C. N. Detection of oxidative DNA damage in human sperm and the association with cigarette smoking. *Reprod. Toxicol.* **11**:675-680; 1997.
9. Yang, C. F.; **Shen, H. M.**; Shen, Y.; Zhuang, Z. X.; Ong, C. N. Cadmium-induced oxidative cellular damage in human fetal lung fibroblasts (MRC-5 cells). *Environ. Health Perspect.* **105**:712-716; 1997.
8. Zhuang, Z. X.; Shen, Y.; **Shen, H. M.**; Ng, V.; Ong, C. N. DNA strand breaks and poly (ADP-ribose) polymerase activation induced by crystalline nickel subsulfide in MRC-5 lung fibroblast cells. *Hum. Exp. Toxicol.* **15**:891-897; 1996.
7. **Shen, H.M.***; Ong, C. N. Mutations of the p53 tumor suppressor gene and ras oncogenes in aflatoxin hepatocarcinogenesis (review). *Mutat. Res.* **366**:23-44; 1996.
6. Shen, Y.; **Shen, H. M.**; Shi, C. Y.; Ong, C. N. Benzene metabolites enhance reactive oxygen species generation in HL60 human leukemia cells. *Hum. Exp. Toxicol.* **15**:422-427; 1996.
5. **Shen, H.M.***; Shi, C. Y.; Shen, Y.; Ong, C. N. Detection of elevated reactive oxygen species level in cultured rat hepatocytes treated with aflatoxin B1. *Free Radic. Biol. Med.* **21**:139-146; 1996.

4. **Shen, H. M.**; Ong, C. N.; Shi, C. Y. Involvement of reactive oxygen species in aflatoxin B1-induced cell injury in cultured rat hepatocytes. *Toxicology*. **99**:115-123; 1995.
3. **Shen, H. M.**; Ong, C. N.; Lee, B. L.; Shi, C. Y. Aflatoxin B1-induced 8-hydroxydeoxyguanosine formation in rat hepatic DNA. *Carcinogenesis*. **16**:419-422; 1995.
2. **Shen, H. M.**; Shi, C. Y.; Lee, H. P.; Ong, C. N. Aflatoxin B1-induced lipid peroxidation in rat liver. *Toxicol. Appl. Pharmacol.* **127**:145-150; 1994.
1. **Shen, H.M.***; Zhang, Q. F. Risk assessment of nickel carcinogenicity and occupational lung cancer (review). *Environ. Health Perspect.* **102 Suppl 1**::275-282; 1994.

Book Edited

Together with Dr. Peter Vandenabeele (from Ghent University, Belgium, a pioneer and worldwide leading scientist in the field of programmed necrotic cell death), I recently edited the first book on necrosis: ***Necrotic cell death***, Editors: Shen HM and Vandenabeele P, Humana/Springer Press, 2014.



Book Chapters

- (1) Ren Y, **Shen HM**. Regulation of Autophagy by AMPK. In *Autophagy and Signaling*, edited by Esther Wong, CRC Press/Taylor & Francis. 2016
- (2) Tan SH and **Shen HM**. Autophagic cell death: a real killer, an accomplice, or an innocent bystander? In *Necrotic Cell Death*, Edited by Shen HM-Vandenabeele P., Humana Press, 2014; pp211-232.
- (3) **Shen HM** and Codogno P. Autophagy in necrosis: A force for survival. In *Necrotic Cell Death*, Edited by Shen HM-Vandenabeele P., Humana Press, 2014; pp233-252.
- (4) Cui JZ and **Shen HM**. Modulation of autophagy as a novel cancer therapeutic strategy. In *New Advances on Disease Biomarkers and Molecular Targets in Cancer and Biomedicine*, Edited by Lee N, Cheng Y, Luk J; Springer, 2012; pp175-204.
- (5) **Shen HM** and Pervaiz S. Reactive Oxygen Species in Cell Death Decision. In *Essential of Apoptosis*, Edited by Yin XM and Dong Z, Humana Press, 2009; pp199-222.
- (6) **Shen HM** and Liu ZG. Oxidative stress, JNK activation and cell death. In *The JNK signaling Pathway*, edited by Lin A. Landes Bioscience. 2006. Pp. 73-82.
- (7) Shi RX, Ong CN and **Shen HM**. Pharmacological and chemopreventive studies of Chrysanthemum. In *Herbal and Traditional Medicine – Molecular Aspects of Health*. Edited by Packer L, Ong CN and Halliwell B. Marcel Dekker (New York), pp 407-439. 2004.
- (8) Yang, C F, **Shen H M** and Ong C N, "A comparative study on ebselen and sodium selenite against hydrogen peroxide-induced oxidative damage in HepG2 cells". In *Metals in Biology and Medicine*, ed. Collery P et al, 405-410. Paris: John Libbey Eurotext, 1998.