

Associate Professor Ren Ee Chee's Representative Publications

1. Huan XL, Zhuo N, Lee HY, Ren EC. Allopurinol non-covalently facilitates binding of unconventional peptides to HLA-B*58:01. **Sci Rep**. 2023. 13:9373. doi.org/10.1038/s41598-023-36293-z.
2. Ko HL, Zhuo N, Chang ZW, Santosa A, Kalimuddin S, Lim XR, Tan SY, Lye DC, Toh D, Young BE, Renia L, Lee HY, Ren EC. In vitro vaccine challenge of PBMCs from BNT162b2 anaphylaxis patients reveal HSP90- α -NOD2-NLRP3 nexus. **Allergy**, 2022. DOI: 10.1111/all.15503
3. Huan XL, Zhuo ZY, Xiao ZW, Ren EC. Crystal structure of suboptimal viral fragments of Epstein Barr Virus Rta peptide-HLA complex that stimulate CD8 T cell response. **Sci Rep**. 2019 Nov 13;9(1):16660. doi: 10.1038/s41598-019-53201-6.
4. Wang B, Lam TH, Soh MK, Ye Z, Chen JM, Ren EC. Influenza A virus facilitates its infectivity by activating p53 to inhibit the expression of interferon-induced transmembrane proteins (IFITMs). **Front Immunol**. 2018, 9: 113. <https://www.frontiersin.org/articles/10.3389/fimmu.2018.01193/full>
5. Ko HL, Lam TH, Ng H, Toh J, Wang LW, Ren EC. Identification of Slug and SOX7 as transcriptional repressors binding to the hepatitis B virus core promoter. **J Hepatol**. 2018 Jan 68(1): 42–52. doi.org/10.1016/j.jhep.2017.08.033
6. Liu JX, Xiao ZW, Ko HL, Shen MX, Ren EC. Activating killer cell immunoglobulin-like receptor 2DS2 binds to HLA-A*11. **Proc Natl Acad Sci, USA**. 2014 Feb 18; 111(7):2662-7. [Reviewed in F1000Prime].
7. Wang B, Niu D, Lam TH, Xiao Z, Ren EC. Mapping the p53 transcriptome universe using p53 natural polymorphs. **Cell Death Differ**. 2014; 21(4): 521-32 [with Editorial Commentary, Cell Death Differ, 2014; 21(4): 505-6].
8. Wang B, Niu DD, Lai LY, Ren EC. p53 increases MHC Class I expression by upregulating the endoplasmic reticulum aminopeptidase ERAP1. **Nat. Commun**. 2013 Aug; 4:2359. doi: 10.1038/ncomms3359.
9. Xiao Z, Ko HL, Goh EH, Wang B, Ren EC. hnRNP K suppresses apoptosis independent of p53 status by maintaining high levels of endogenous caspase inhibitors. **Carcinogenesis**. 2013 Jul; 34(7):1458-67.
10. Lam TH, Shen M, Chia JM, Chan SH, Ren EC. Population-specific recombination sites within the human MHC region. **Heredity (Edinb)**. 2013 Aug; 111(2):131-8.
11. Ko HL, Ng HJ, Goh EH, Ren EC Reduced ADP-ribosylation by PARP1 natural polymorphism V762A and by PARP1 inhibitors enhance Hepatitis B Virus Replication. **J Viral Hep**. 2013 Sep; 20(9): 658-65.
12. Lin Z, Bei JX, Shen M, Li Q, Liao Z, Zhang Y, Lv Q, Wei Q, Low HQ, Guo YM, Cao S, Yang M, Hu Z, Xu M, Wang X, Wei Y, Li L, Li C, Li T, Huang J, Pan Y, Jin O, Wu Y, Wu J, Guo Z, He P, Hu S, Wu H, Song H, Zhan F, Liu S, Gao G, Liu Z, Li Y, Xiao C, Li J, Ye Z, He W, Liu D, Shen L, Huang A, Wu H, Tao Y, Pan X, Yu B, Tai ES, Zeng YX, Ren EC, Shen Y, Liu J, Gu J. A genome-wide association study in Han Chinese identifies new susceptibility loci for ankylosing spondylitis. **Nat Genet**. 2012; 44(1):73-77.

13. Ko HL and Ren EC. Novel PARP1 binding motif in hepatitis B virus core promoter impairs DNA damage repair. **Hepatology**. 2011 Oct; 54(4):1190-1198.
14. Liu JX, Chen KY, Ren EC. Crystal structures of Hepatitis B virus core 18–27 peptide bound to multiple HLA-A2 alleles: Implications for therapeutic vaccine design. **Eur J Immunol**. 2011 Jul; 41(7):2097-106.
15. Wang B, Xiao ZW, Ko HL, Ren EC. The p53 response element and transcriptional repression. **Cell Cycle**. 2010 Mar; 9(5): 870-79.
16. Wang B, Xiao ZW, Ren EC. Redefining the p53 response element. **Proc Natl Acad Sci, USA**. 2009 Aug;106(34):14373-8. [Research Highlights. Nature Reviews Cancer 2009 Oct; 9(10): 689.]
17. Wang B, Feng P, Xiao ZW, Ren EC. LIM and SH3 protein 1 (Lasp1) is a novel p53 transcriptional target involved in hepatocellular carcinoma. **J Hepatol**. 2009 Mar; 50(3):528-37.
18. Ng LF, Chan M, Chan SH, Cheng PC, Leung EH, Chen WN, Ren EC. Host heterogeneous ribonucleoprotein K (hnRNP K) as a potential target to suppress hepatitis B virus replication. **PLoS Med**. 2005 Jul; 2(7): 673-83.
19. Neo SY, Leow CY, Vinsensius B. Vega, Long PM, Amirul Islam, Lai PBS, Liu E, Ren EC. Identification of discriminators of hepatocellular carcinoma vs. non- tumor liver using expression profiling. **Hepatology**. 2004 Apr; 39(4):944-53.