SHC Laboratory
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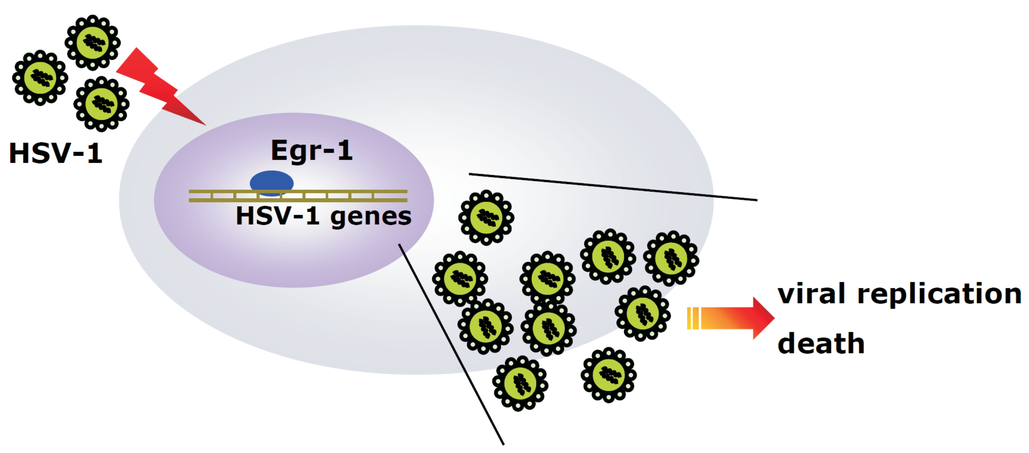
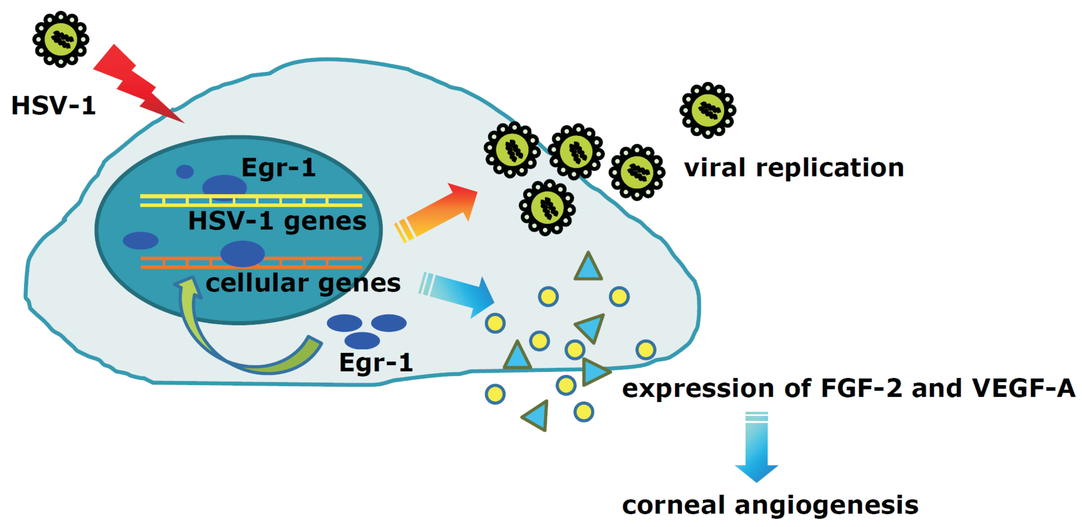
專長學門：
分子病毒學; 免疫學; 分子生物學

研究興趣
1.探討神經性病毒引起腦炎的治病機制及其免疫調控。
2.研究疱疹病毒如何與宿主之基因作用，進而引起致命性腦炎，並探討感染後病毒在腦部的潛伏復發及免疫調控。
3.研究腸病毒七十一型引起致命性腦炎的機制，免疫調控及治療方法。

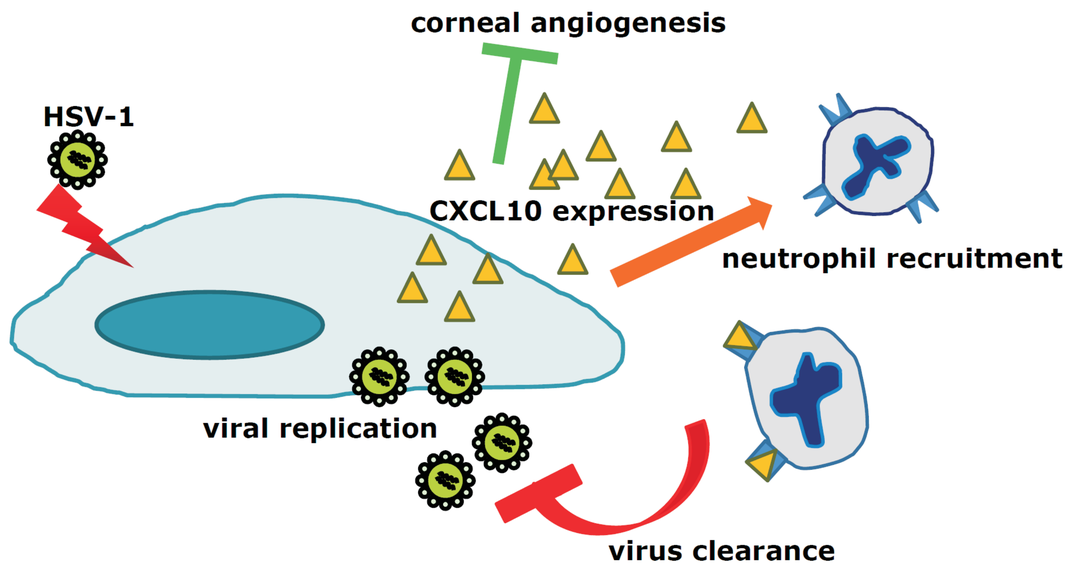
Transcription factor early growth response (Egr-1) enhances HSV-1 lethality in mice



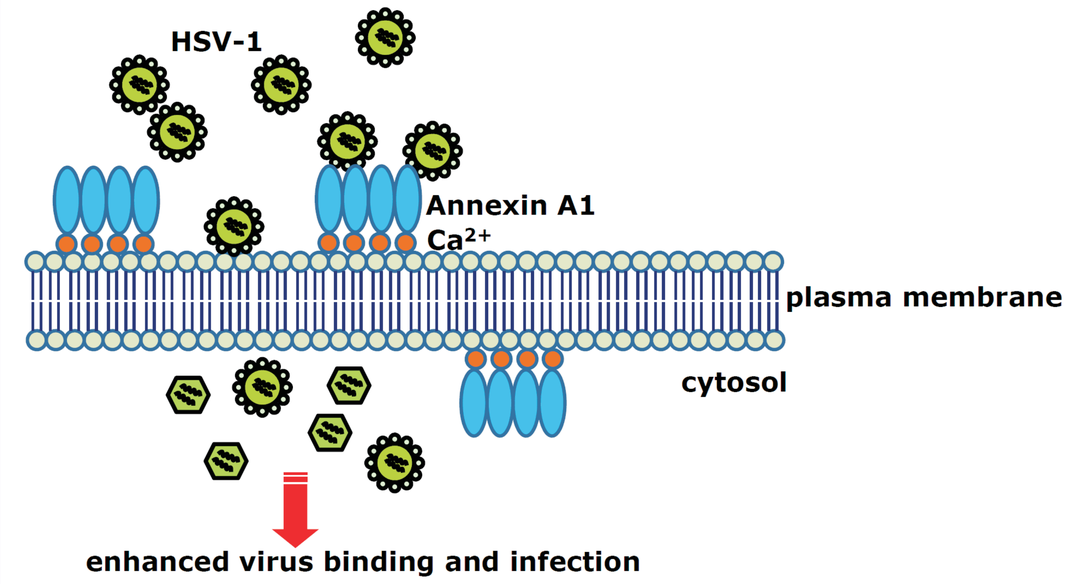
Egr-1 increases the severity of herpes simplex virus-induced corneal blindness in mice



CXCL10 reduces the severity of herpes simplex virus-induced corneal blindness in mice



Annexin A1 increases the severity of herpes simplex virus-induced encephalitis in mice



Publications:

HSV studies

1. Chen SH, Yao HW, Chen IT, Shieh B, Li C, and **Chen SH** Suppression of transcription factor early growth response 1 reduces herpes simplex virus lethality in mice. *J. Clin. Invest.* (2008) 118: 3470-3477
2. Shen FH, Wang SW, Yeh TM, Tung YY, Hsu SM, and **Chen SH**. Absence of CXCL10 aggravates herpes stromal keratitis with reduced primary neutrophil influx in mice. *J. Virol.* (2013) 87: 8502-8510
3. Yao HW, Chen SH, Li C, Tung YY, and **Chen SH** Suppression of transcription factor early growth response 1 reduces herpes simplex virus 1-induced corneal disease in mice. *J. Virol.* (2012) 86: 8559-8567
4. Yao HW, Ling P, Chen SH, Tung YY, and **Chen SH** Factors affecting herpes simplex virus reactivation from the explanted mouse brain. *Virology* (2012) 433: 116-123
5. Huang WY, Su YH, Yao HW, Ling P, Tung YY, Chen SH, Wang X, and **Chen SH** Interferon beta plus gamma efficiently reduces acyclovir-resistant herpes simplex virus infection in mice in a T-cell-independent manner. *J. Gen. Virol.* (2010) 91: 591-598
6. Yao HW, Ling P, Tung YY, and **Chen SH** Reactivation of latent herpes simplex virus 1 occurs in the brain before in the trigeminal ganglion of mice following stimulation. *J. Virol.* Submitted.

Enterovirus 71 studies

7. Shen FH, Tsai CC, Wang LC, Chang KC, Tung YY, Su IJ and **Chen SH** Enterovirus 71 infection increases expression of interferon-gamma-inducible protein 10 which protects mice by recruiting lymphocytes to reduce viral burden in multiple organs. *J. Gen. Virol.* (2013) : 1019-1027
8. Wang LC, Kao CM, Ling P, Chang TM, Su IJ, and **Chen SH** CD4 T-cell-independent antibody response reduces EV 71 lethality in mice by decreasing tissue viral loads. ***Clin. Dev. Immunol.*** (2012) vol. 2012, Article ID 580696, 9 pages, 2012. doi:10.1155/2012/580696
9. Lin YW, Chang KC, Kao CM, Chang SP, Tung YY, and **Chen SH** Lymphocyte and antibody responses reduce enterovirus 71 lethality in mice by decreasing tissue viral loads. *J. Virol.* (2009) *83: 6477-6483*
10. Lin YW, Wang SW, Tung YY, and **Chen SH** Enterovirus 71 infection of human dendritic cells. *Exp. Bio. Med.* (2009) 234: 1166-1173