

## Publications

1. **Rong, L.**, Dahari, H., Ribeiro, R.M., Perelson, A.S., 2009. Rapid emergence of hepatitis C virus protease inhibitor resistance. Submitted.
2. **Rong, L.**, Perelson, A.S., 2009. Modeling latently infected cell activation: viral and latent reservoir persistence, and viral blips in HIV-infected patients on potent therapy. *PLoS Computational Biology*, in press.
3. **Rong, L.**, Perelson, A.S., 2009. Treatment of hepatitis C virus infection with interferon and small molecule direct antivirals: viral kinetics and modeling. *Critical Reviews in Immunology*, in press.
4. **Rong, L.**, Perelson, A.S., 2009. Modeling HIV persistence, the latent reservoir, and viral blips. *Journal of Theoretical Biology* 260, 308-331.
5. Burg, D., **Rong, L.**, Neumann, A.U., Dahari, H., 2009. Mathematical modeling of viral kinetics under immune control during primary HIV-1 infection. *Journal of Theoretical Biology* 259, 751-759.
6. **Rong, L.**, Perelson, A.S., 2009. Asymmetric division of activated latently infected cells may explain the decay kinetics of the HIV-1 latent reservoir and intermittent viral blips. *Mathematical Biosciences* 217, 77-87.
7. **Rong, L.**, Feng, Z., Perelson, A.S., 2008. Mathematical modeling of HIV-1 infection and drug therapy. In *Mathematical Modeling of Biosystems*, R. P. Mondaini and P. M., Pardalos, eds., Springer-Verlag, pp. 87-131.
8. **Rong, L.**, Gilchrist, M.A., Feng, Z., Perelson, A.S., 2007. Modeling within-host HIV-1 dynamics and the evolution of drug resistance: trade-offs between viral enzyme function and drug susceptibility. *Journal of Theoretical Biology* 247, 804-818.
9. **Rong, L.**, Feng, Z., Perelson, A.S., 2007. Emergence of HIV-1 drug resistance during antiretroviral treatment. *Bulletin of Mathematical Biology* 69, 2027-2060.
10. **Rong, L.**, Feng, Z., Perelson, A.S., 2007. Mathematical analysis of age-structured HIV-1 dynamics with combination antiretroviral therapy. *SIAM Journal on Applied Mathematics*. 67, 731-756.
11. **Rong, L.**, 2007. Mathematical modeling of HIV-1 infection and drug therapy. Doctoral dissertation, (Thesis advisor: Zhilan Feng, Professor of Mathematics, Purdue University).
12. Feng, Z., **Rong, L.**, 2006. The influence of anti-viral drug therapy on the evolution of HIV-1 pathogens. In *Disease Evolution: Models, Concepts, and Data Analyses*, Z. Feng, U. Dieckmann and S. A. Levin, eds., American Mathematical Society, pp. 161-179.
13. **Rong, L.**, Chen, T., 2006. New results on the robust stability of Cohen-Grossberg neural networks with delays. *Neural Processing Letters* 24, 193-202.
14. Feng, Z., **Rong, L.**, Swihart, R.K., 2005. Dynamics of an age-structured metapopulation model. *Natural Resource Modeling* 18, 415-440.
15. **Rong, L.**, 2005. LMI approach for global periodicity of neural networks with time-varying delays. *IEEE Transactions on Circuits and Systems I: Regular Papers* 52, 1451-1458.
16. **Rong, L.**, 2005. LMI-based criteria for robust stability of Cohen-Grossberg neural networks with delay. *Physics Letters A* 339, 63-73.
17. **Rong, L.**, Lu, W., Chen, T., 2004. Global exponential stability in Hopfield and bidirectional associative memory neural networks with time delays. *Chinese Annals of Mathematics* 25, 255-262.
18. Chen, T., **Rong, L.**, 2004. Robust global exponential stability of Cohen-Grossberg neural

networks with time delays. *IEEE Transactions on Neural Networks* 15, 203-206.

19. **Rong, L.**, 2003. Stability analysis of neural network models with delays. Master's thesis (Thesis advisor: Tianping Chen, Professor of Mathematics, Fudan University).
20. Lu, W., **Rong, L.**, Chen, T., 2003. Global convergence of delayed neural network systems. *International Journal of Neural Systems* 13, 193-204.
21. Chen, T., **Rong, L.**, 2003. Delay-independent stability analysis of Cohen-Grossberg neural networks. *Physics Letters A* 317, 436-449.