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*Budding vs lysis— on viral release strategies in virus replication*

We consider the evolutionary competition between budding and lytic viral release strategies, using a delay differential equation model with distributed delay. The role of antibody is incorporated. Analysis of the model predicts under what conditions the budding strategy is superior to the lytic one and in what situations the lytic strategy will be advantageous over the budding one. This is a joint work with Dr. Xiulan Lai