

1. S.J. Merrill, A Geometrical Study of B-cell stimulation and humoral immune response, in Nonlinear Systems and Applications, an International Conference, ed. V. Lakshikantham, Academic Press, 1977, pp. 611-630.
2. S.J. Merrill, A model of the stimulation of B-cells by replicating antigen-I, *Math. Biosci.* **41** (1978), 125-141.
3. S.J. Merrill, A model of the stimulation of B-cells by replicating antigen-II, *Math. Biosci.* **41** (1978), 143-155.
4. S.J. Merrill, A mathematical model of tumor growth and cytotoxic blocking activity, *Math. Biosci.* **47** (1979), 79-89.
5. S.J. Merrill, A Mathematical Model Simulating Disease Treatment: SLE, Proceedings of the 1978 IEEE Conference on Decision and Control, Springer-Verlag, 1979, pp.750-754.
6. S.J. Merrill, Mathematical models of humoral immune response, in Modeling and Differential Equations in Biology, T. Burton (ed.), M. Dekker (1980), 13-50.
7. S.J. Merrill, Limit cycles in a model of B-cell stimulation, in Modeling and Differential Equations in Biology, T. Burton (ed.), M. Dekker (1980), 225-238.
8. S.J. Merrill and A.V. LeFever, A model of complement activation by antigen-antibody complexes, in Differential Equations, S. Ahmad, M. Keener, A. Lazar (eds), Academic Press (1980), pp. 221-233.
9. S.J. Merrill, A model of the role of natural killer cells in immune surveillance-I, *J. Math. Biol.*, **12** (1981), 363-373.
10. S.J. Merrill, Control and activation of the complement system, in Mathematical Biology, T. Burton (ed), Pergamon Press, 1981, pp. 155-178.
11. S.J. Merrill, Foundations of the use of an enzyme kinetic analogy in cell-mediated cytotoxicity, *Math. Biosci.*, **62**(1982), 219-235.
12. S.J. Merrill, A model of the role of natural killer cells in immune surveillance-II, *J. Math. Biol.*, **17** (1983), 153-162.
13. S.J. Merrill, Interaction of antitumor cells: competition and interference, in Population Biology. Proceedings of the 1982 Edmonton Conference, H.I. Freedman and C. Strobeck (eds.), Springer-Verlag, 1983, 423-428.
14. S.J. Merrill, Stochastic models of tumor growth and the probability of elimination by cytotoxic cells, *J. Math. Biol.* **20** (1984), 305-320.
15. S.J. Merrill, A Stochastic Model of 'Sneaking Through' the Immune Surveillance Mediated by NK Cells, in Differential and Integral Equations, Proceedings of the 12th Midwest Conference, edited by J.L. Henderson, pp. 60-73, published by the Institute of Applied Mathematics, University of Missouri-Rolla, 1985.
16. S.J. Merrill and S. Sathananthan, Approximate Michaelis-Menten kinetics displayed in a stochastic model of cell-mediated cytotoxicity, *Math. Biosci.* **80**, 223-238, 1986.
17. S.J. Merrill, AIDS: Background and the dynamics of the decline of immunocompetence, in Theoretical Immunology, Part 2, A.S. Perelson, ed., Addison-Wesley, 1988, 59-75.
18. S.J. Merrill and X-C Huang, Conditions of Uniqueness of Limit Cycles in General Predator-prey Systems, *Math. Biosci.* **92**, 1989, 47-60.
19. S.J. Merrill, Modeling the Interaction of HIV with Cells of the Immune System, in Mathematical and Statistical Approaches to AIDS Epidemiology, C. Castillo-Chavez (ed.) Springer-Verlag, 1989, 371-385.