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Multi-Level Dynamics of Viral Infections

Abstract:

Most chemical reaction models of viral infections focus exclusively on either the intracellular level or the extracellular level. To more realistically model these infections, we propose incorporating both levels of information into the description using cell population balances. We are extending this modeling technique to spatially resolving the propagation of virus in a growing plaque. By modeling this experimental system, we seek to better understand the role that cytokines play in defending against viral infections, and how to best control this defense mechanism.

Tuesday, October 26th
4:00 p.m.

Genetics/Biotechnology Center Auditorium
425 Henry Mall