BIOMATH SEMINAR

Friday, October 3
1-2 pm
Harris 4119

Modeling the Interaction of Conjointly Growing Tumor and Aging Normal Cells in an Aging Immune System

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Abstract: Most modeling takes place under the assumption of temporal locality, i.e. the system is not really growing "old" during the modeling/simulation timespan. In this presentation we (1) review some of the challenges of modeling aging normal cells, (2) look at age-related data on cancer incidence across aging and (3) look at tying a model together that includes immune aging, tumor cells and aging normal cells. This has great importance in understanding pharmacodynamic effects when treating geriatric patients who have cancer. No biological background is required.