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Rachel Leander* (rachel.leander@mtsu.edu), Murfreesboro, TN, and **Edward Allen, Darren Tyson, Shawn Garbett, Zach Jones** and **Vito Quaranta**. *Modeling the dynamics of intermitotic time distributions*. Preliminary report.

Empirical distributions of intermitotic times (IMTs) show the time it takes a cell to divide is highly variable; the final response to drug treatment is not uniform; and it takes multiple cell cycles for an IMT distribution to stabilize post perturbation. In this talk, I will present a stochastic model of the cell cycle and discuss the model's validity and biological implications. (Received September 14, 2014)