1145-92-2333 Lauren Marazzi, Center for Quantitative Medicine, 263 Farmington Avenue, Farmington, CT 06030, and Paola Vera-Licona* (veralicona@uchc.edu), Center for Quantitative Medicine, Farmington, CT 06030. Reversion of the attractor landscapes of an intracellular regulatory network for triple-negative breast cancer. Preliminary report.

In this talk we will present a system biology pipeline to study the reversion of triple negative breast cancer. The core of the pipeline is the construction of a Boolean model of a core intracellular signaling network of triple negative breast cancer. The model integrates key regulatory molecules and their interactions from survey of literature and experimental data. To evaluate attractors associated to cancerous states, readout nodes include features of hallmarks of cancer. We will discuss a systematic procedure to identify molecular targets that, when perturbed in the model, can modify the attractor landscape with respect to readout cancer hallmarks. Finally we will discuss prioritization and validations of identified targets. (Received September 25, 2018)