

國立中山大學應用數學系

學術演講

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講題：A mathematical model of cancer cell plasticity
and its application to experimental data

時間：2016/6/22 (星期三) 14:10 ~ 15:00

地點：理學院四樓理 SC 4009-1 室

茶會：15:00 於理 SC 4010 室 (系辦公室)

摘要

Cancer cell plasticity is recently becoming a cutting-edge research area in quantitative biology. This talk will present a multi-type branching process to model cancer cell plasticity. Based on this model, we will analyze both long-term limiting behavior and short-term transient dynamics. By validating our model to experimental data, we will show that the plastic model shows great advantages over the hierarchical model in capturing both the phenotypic equilibrium and overshoot phenomena of cancer stem cells.

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