

Modeling small cell lung cancer (SCLC) biology through deterministic and stochastic mathematical models

SUPPLEMENTARY MATERIALS

Supplementary Video 1: Most common metastasis sites of SCLC. Simulation of early time points and the endpoint (from top left to bottom right) of tumor cells (purple) metastasizing to different organs (colored as indicated). See [Supplementary_Video_1](#)

Supplementary Video 2: The cellular automaton model of SCLC growth and necrosis. Growth of tumor (scale on left side) and oxygen levels within the tumor (color scale on right side) at different time points. See [Supplementary_Video_2](#)

Supplementary Video 3: The cellular automaton model of SCLC growth and necrosis. Growth of tumor showing the extent of the necrosis at different times (red = live cells, green = apoptotic cells, and blue = necrotic cells). The necrosis of the tumor initiates at > 180 hours. See [Supplementary_Video_3](#)

Supplementary Video 4: Simulation of tumor heterogeneity and tumor burden in SCLC. Tumor heterogeneity and cellular automata at different time points. Tumor burden at corresponding time points, indicating the growth of wild-type cells (red) and cells containing mutations (blue). See [Supplementary_Video_4](#)