Example Cancers

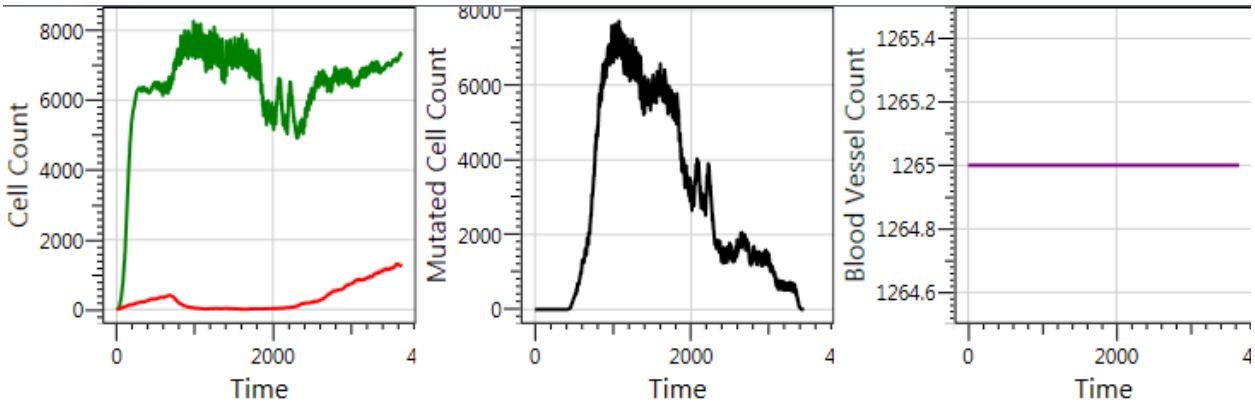
Cancer 1

Decreasing pressure tolerance

Simulation setup:
"PressureAtCell":100,
"PressureNearCell":1,

3 blast cells in center of single tissue with the following parameters:
"startingPressureToleranceAtLocation":100,
"startingPressureToleranceAtNeighbors":1,
"startingDivideRate":0.35,
"startingDeathRate":0.01,
"FoodConsumptionRate":1,
"FoodMaxStorage":100,
"FoodConcernLevel":70,
"MoveProbability":0.3,
"EnterPipeProbability":0.3,
"LeavePipeProbability":0.1,
"SurvivePipeProbability":0.9,
"CallPipeProbability":0.0

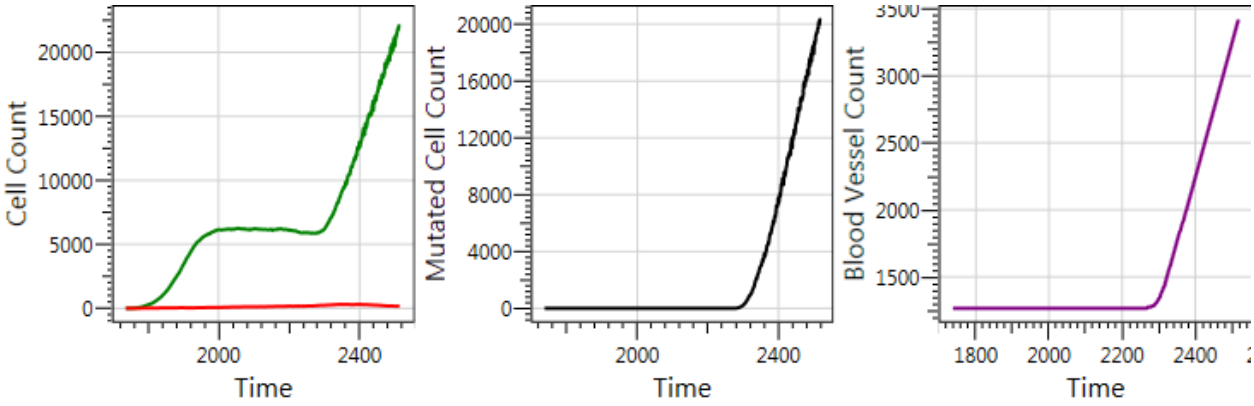
Mutation:
Division prob: 0.75
Pressure tolerance at neighbors: 204



Cancer 2
Allowing angiogenesis

Setup same as above Cancer 1

Mutation:
Division probability: 0.75
Pressure tolerance at neighbors: 204
CallPipeProbability: 0.80



Cancer 3
Decreasing food consumption

Simulation setup:
"PressureAtCell":100,
"PressureNearCell":1,

3 blast cells in center of single tissue with the following parameters:
"startingPressureToleranceAtLocation":100,
"startingPressureToleranceAtNeighbors":1,
"startingDivideRate":0.35,
"startingDeathRate":0.01,
"FoodConsumptionRate":3,
"FoodMaxStorage":300,
"FoodConcernLevel":70,
"MoveProbability":0.3,
"EnterPipeProbability":0.3,
"LeavePipeProbability":0.1,
"SurvivePipeProbability":0.9,
"CallPipeProbability":0.0

Mutation:
division probability: 0.8
pressure tolerance at neighbors: 155
pressure tolerance at location: 205
food consumption rate: 1