DEPARTMENT OF BIOENGINEERING UNIVERSITY OF PITTSBURGH SWANSON SCHOOL OF ENGINEERING





$$\left(\frac{C_{Lap}}{+C_{Lap}}\right)$$

Results: Model predicts the tumor-fibroblast ratio that results in cytostatic response for various drug conditions





Ongoing work:

Microfluidics capture region of influence of fibroblast protection



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3.834	3.835	3.837	3.839	- 3.5	
3.445	3.511	3.581	3.659	- 3	
1.826	2.116	2.441	2.835	- 2.5	Tumor Cell Proliferation
1.001	1.326	1.723	2.266	- 1.5	
.5845	0.8672	1.246	1.833	=1	Cytostatic
.4577	0.7112	1.066	1.651	- 0.5	Cytotoxic
0.5 Fibroblast:Tur	1 mor Cell Ratio	2	5		



Testing the predictive power of the model







