



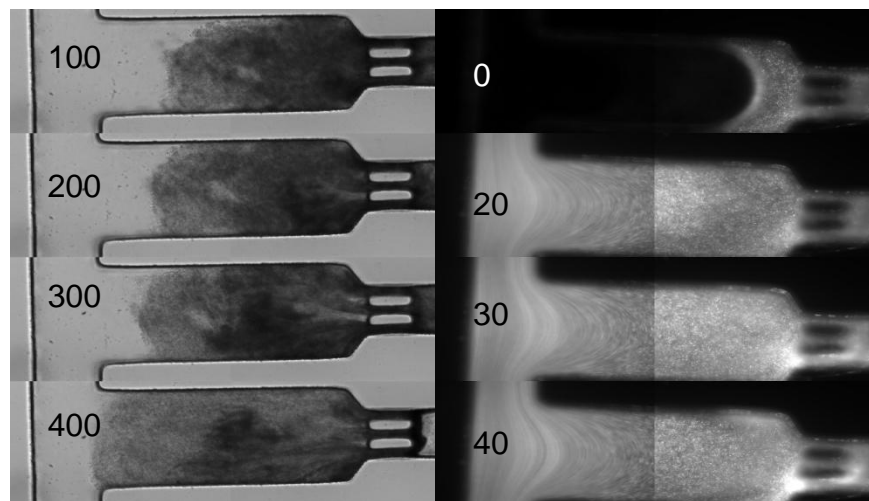
# INSTITUTE FOR CELLULAR ENGINEERING

## Tumor-Targeting Bacteria: A New Frontier in Cancer Research

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Time-lapse images (time in minutes) of (left) tumor tissue expansion and (right) fluorescent bacterial accumulation in the microfluidic device. The current pattern shown in the channel indicates that to see any bacterial accumulation, a fully packed chamber would need to be used (as seen at 400 minutes).

- *Salmonella typhimurium* prefer tumor tissue over normal tissue, making them an excellent cancer-fighting tool.

- *S. typhimurium* have been genetically enhanced to produce a toxin that kills cancer cells.

- A microfluidic device has been designed that makes modeling the effects of bacteria on tumors more simple.