On-Chip Force Sensor for Mechanical Properties Measurement of Synechocystis sp. PCC 6803

O 1Di Chang 1Shinya Sakuma 2Takayuki Hasegawa 2Nobuyuki Uozumi 1Fumihito Arai
1.Nagoya University 2. Tohoku University

Stiffness Measurement of a 2 μm Cell Using On-chip Force Sensor

Background & Purpose

Synechocystis sp. PCC6803
Floating unicellular cyanobacterium
Size: 2 μm
Model microorganism for the study of photosynthesis, biofuel and acclimation to environmental changes.

Purpose: Evaluate the mechanical properties of wild type and mutant type cell in response to osmotic shock.

Resolution:
External actuator

Abstract:
and mutant type cell in response to osmotic shock.


