

Supporting Information

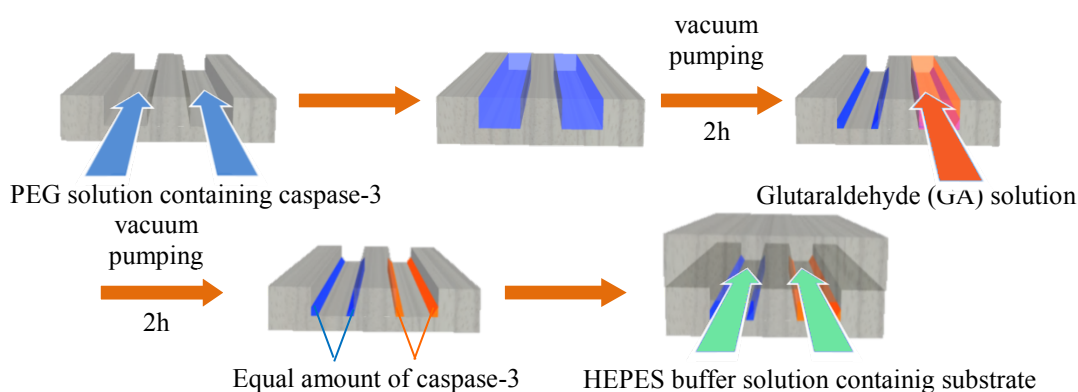
Efficient Immobilization of Enzyme and Substrate for Single-Step Caspase-3 Inhibitor Assay Using Combinable PDMS Capillary Sensor Array

Tadashi Ishimoto, Kaede Jigawa, Terence G. Henares, Kenji Sueyoshi, Tatsuro Endo, Hideaki Hisamoto

Effect of glutaraldehyde (GA) on the activity of immobilized caspase-3

To clarify the effect of GA on the activity of immobilized caspase-3, the following experiment was carried out. First, the PEG solution containing caspase-3 ($0.2 \mu\text{M}$) was introduced into two PDMS channels. After drying, GA solution (2.5%) was introduced into one of the two channels. Following the drying process, two PDMS channels had equal amounts of immobilized caspase-3; however, one of them also contained GA. After solutions of fluorescent substrate (10^{-4}M) were introduced into both channels, the fluorescence response of the channel containing GA was weaker, indicating that GA inhibited the caspase-3 activity.

Method



Result

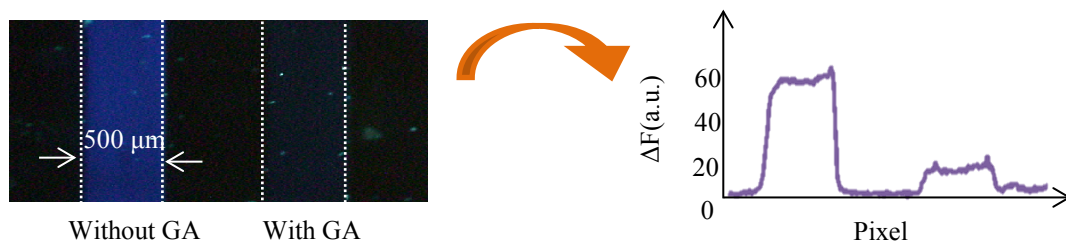


Fig. S1: Effect of GA on caspase-3 activity