

## Accepted Manuscript

Title: Vibration-assisted optical injection of a single fluorescent sensor into a target cell

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**Highlights:**

- Selective adhesion and rapid injection of a fluorescent sensor into a target cell is proposed.
- Multi-fluorescent sensors are encapsulated in liposome layers containing photochromic material for zeta potential control.
- Local vibration stimulus drove by optical tweezers is applied on the single sensor for rapid injection.
- With vibration stimulus, the sensor is successfully injected into cytoplasm in 30 min with a high injection rate of 80%.

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