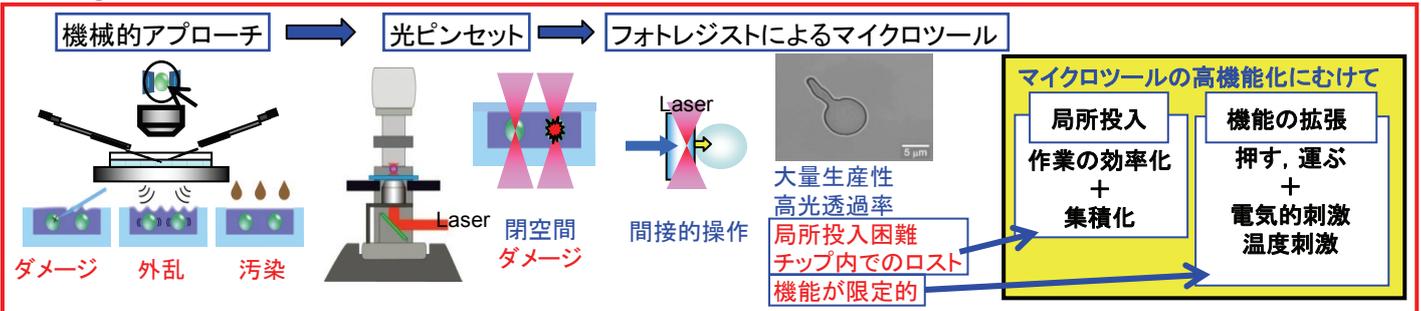


## 細胞計測のためのマイクロツールを多機能化するには？

### Abstract:

We fabricated a tethered microtool by using the metal material and manipulated the microtool by optical tweezers. This metal microtool was designed to tethered shape to be fixed to the substrate, and has high heat transfer and high electrical conductivity to achieve various functions. However, the metal microtool cannot be manipulated by optical tweezers directly. We employed the gel-microtool to manipulate the metal microtool indirectly by adhering the gel-microtool to the metal microtool. We demonstrated the manipulation of the metal microtool with the gel-microtool by optical tweezers.

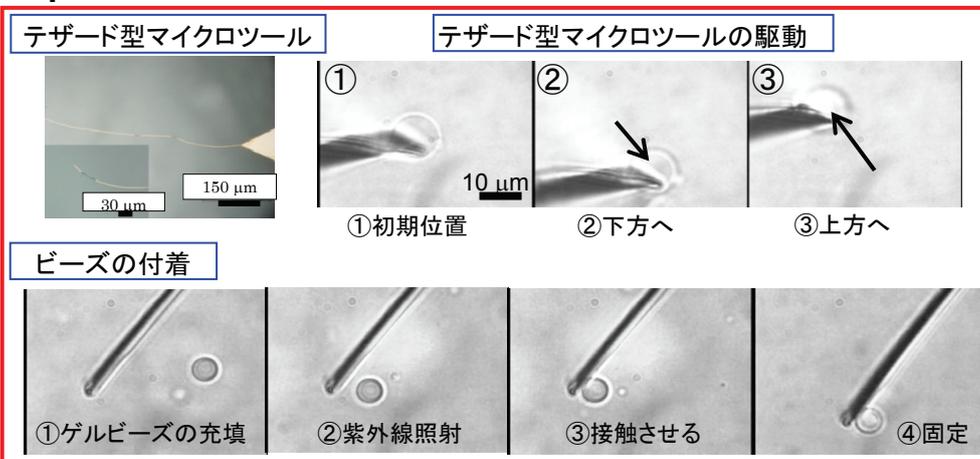
### Background:



### Concept:



### Experiments:



### Future:局所加熱マイクロツール



### Conclusions:

- 金属製テザード型マイクロツールを作製し、ゲルビーズを付着させた。
- テザード型マイクロツールを光ピンセットで駆動した。
- 片持梁型マイクロヒーターを作製した。

### Reference:

N.INOMATA, H. Maruyama, F. Arai, "Laser Driven Robot-on-a-chip (LDRoC) - Part 3: Design and Fabrication of Tether Microtool-," *Proceeding of JSME Conference on Robotics and Mechatronics*, 2A2-L09, FUKUOKA, 2009.