

What you can do with the nano-tweezers

For each sample of size $1\ \mu\text{m} \sim$ several tens of μm , various approaches are possible.

□ GRIP

- COLLECT

- MOVE

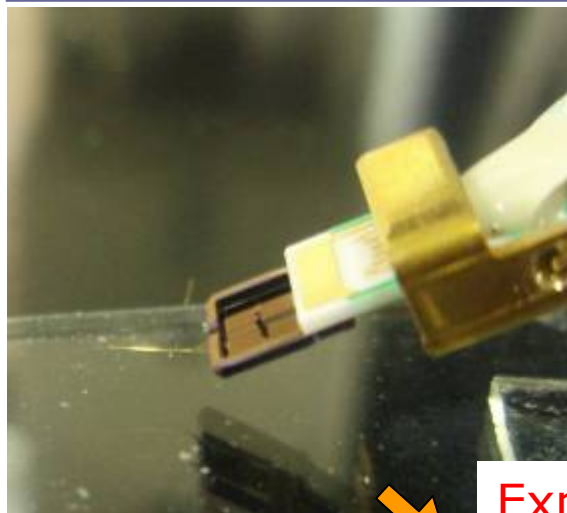
- REMOVE

- PICK OUT

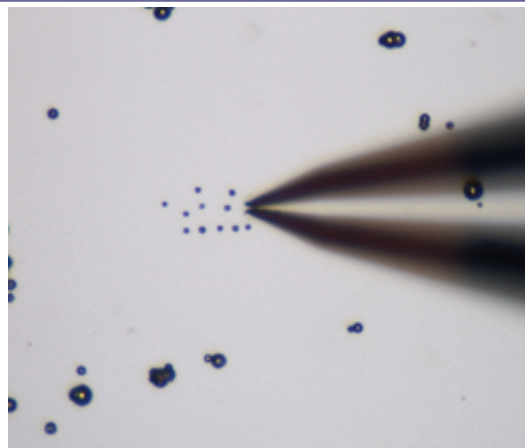
□ Applying vibration

□ Applying an electric field

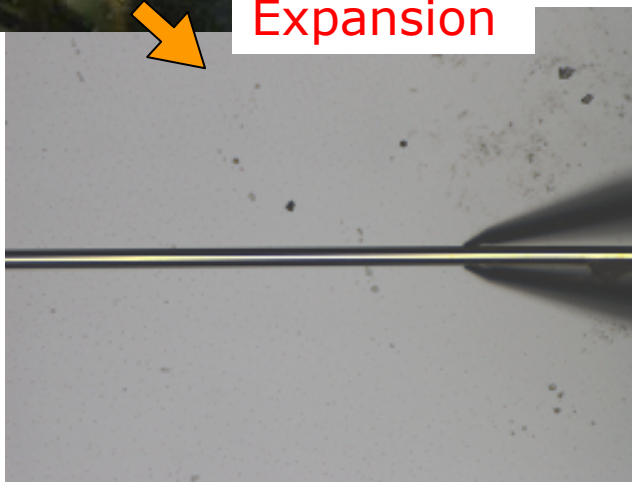
GRIP (Collect, Move)



Expansion



Ni ball($\phi 2 \mu\text{m}$)

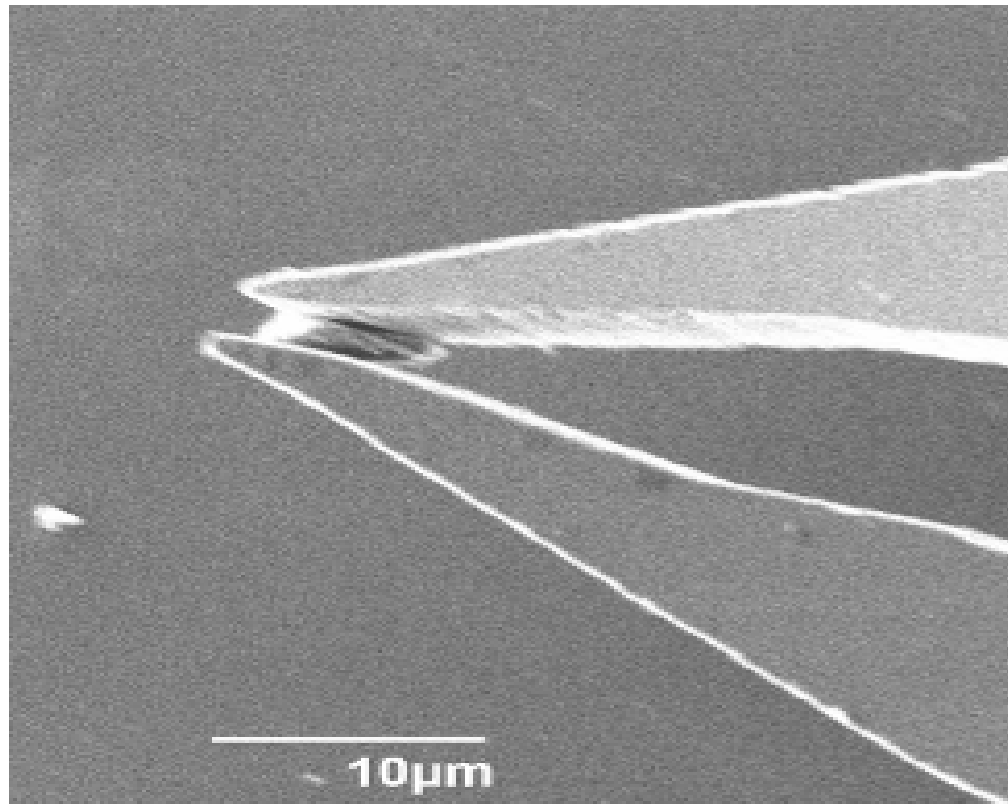


Gold wire($\phi 25 \mu\text{m}$)



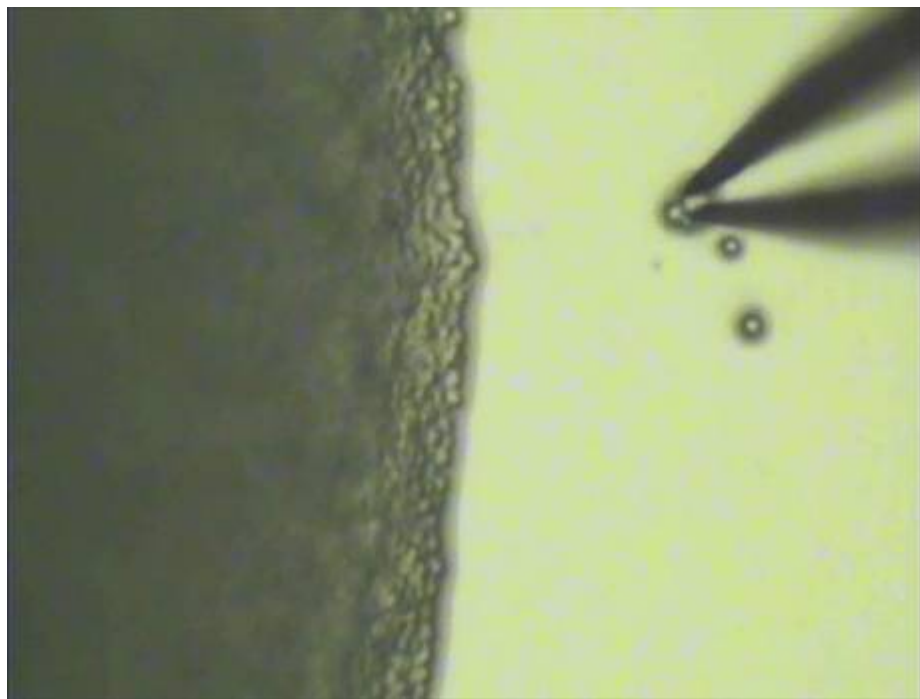
toner

GRIP (Remove)

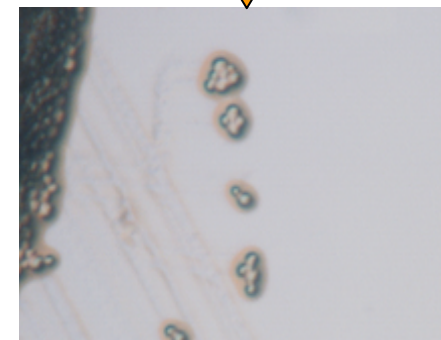
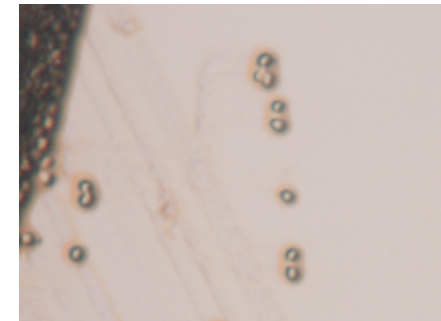


Trash(2 μ m)

GRIP (Pick out)



Only one take out from a colony of yeast



Yeast was moved by nano tweezer was grown

Vibration

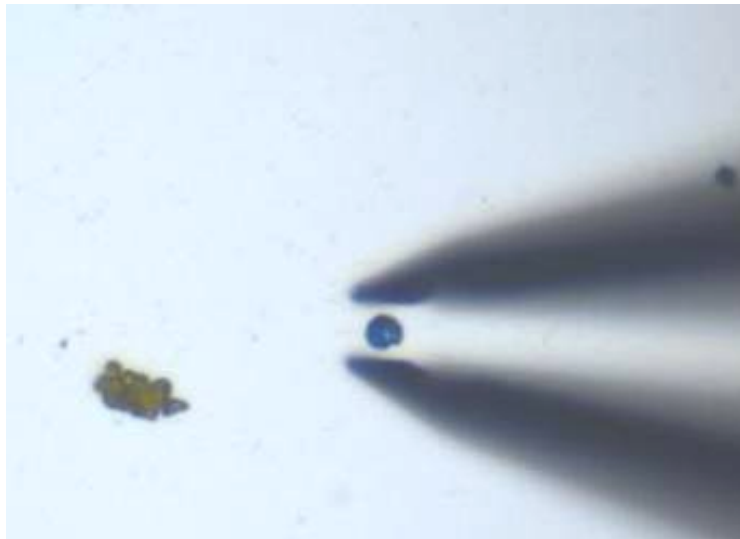
Vibration is applied to a sample
gripped by nano-tweezers

- Stimulate the cell
- Break the cell

etc.

Applying an electric field

- Pull the sample that is charged
 - Examine the characteristics of the sample
- before



After

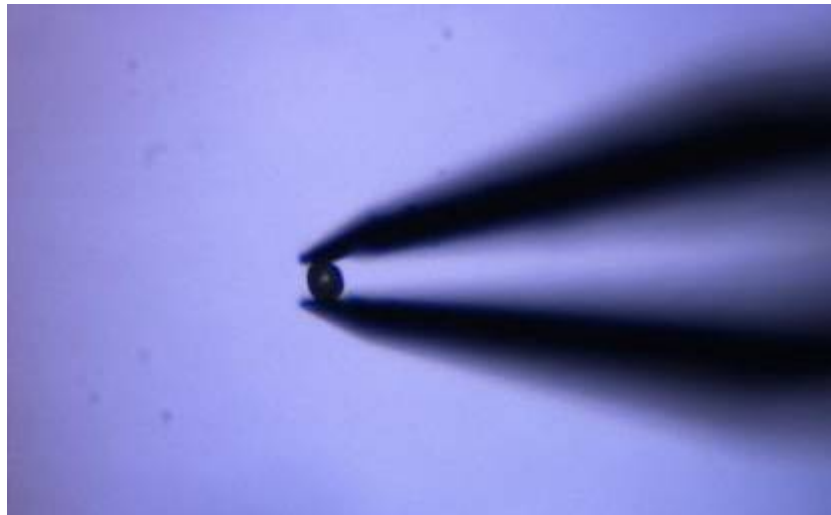


Behavior of the toner that is charged

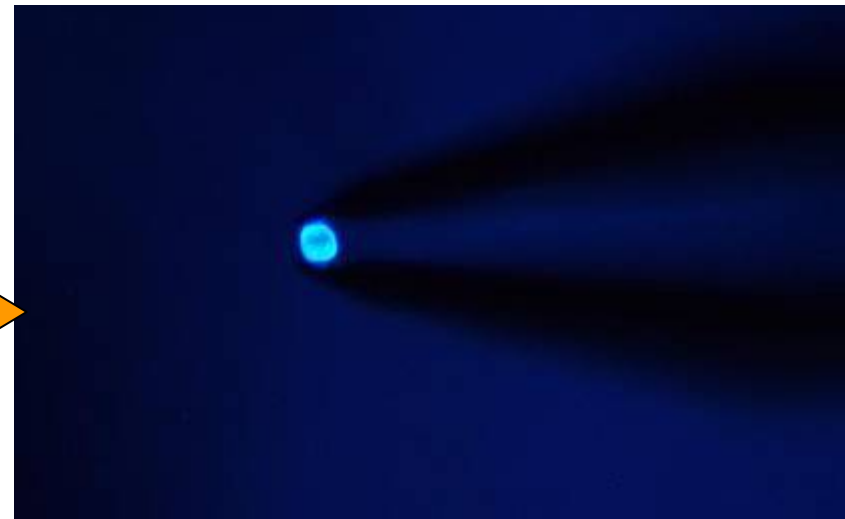
Toner is affected by the electric field

Applying an electric field(Fluorescent particle inorganic EL)

Inorganic fluorescent particles emit light raises the alternating electric field at the tip of the nano-tweezers



Grip the fluorescent particle



Application of
an alternating electric field

ETC.

- Nano tweezers can use a variety depending on usage
- A small foreign body, parts, cells, such as micro-sized crystals
Please contact us if you have difficulty in handling.

⚠ Information in this document is subject to change without notice.

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