

Company
Biocosm Inc.

Presenter
**Hajime
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On Site DNA test kit

DNA extraction reagents
CellEase

PCR reagents
Labeled primers

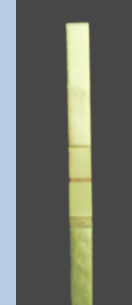
DNA-
Immunochemato strip



Reaction time 9 min



Thermal cycler
(Option)



Reaction time 10 min

No need for separation/ purification operation
No need for centrifuge / detector
All processes about 2 hours ~

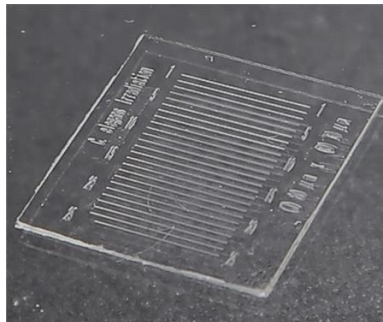
Ultra-thin microfluidic chips with wettability for biological samples

Wettable
ultra-thin PDMS



Prolonged immobilizing
without anesthesia

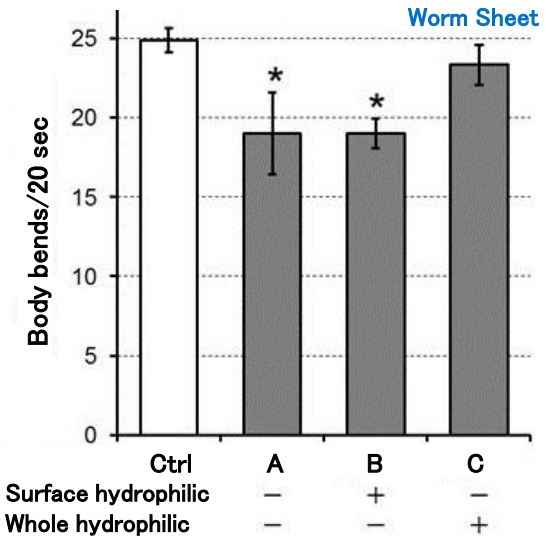
Observation in
a narrow space



PDMS chip for *C. elegans*
'Worm Sheet'



C. elegans individuals enclosed in a
microfluidic channels on Worm Sheet.



Motility of *C. elegans* after 3 hours
enclosed in microfluidic chips.

- Merely making the surface of the chip hydrophilic can not improve the decrease in the motility of *C. elegans* due to drying by enclosing for a long time (B).
- The Worm Sheet molded in a hydrophilic base material prevents *C. elegans* from drying by enclosing for a long time and suppresses decrease in motility (C).

The above photographs and data are provided by the National Institutes for Quantum and Radiological Science and Technology (QST).