

# KAWAKATSU LAB.

Connecting to the NanoRegime through force and sound



Department of Mechanical and Biofunctional Systems, Centre for Interdisciplinary Research on Micro-Nano Methods  
LIMMS/CNRS-IIS (IRL2820) International Collaborative Research Center

Department of Precision Engineering, Graduate School of Engineering

<http://www.inventio.iis.u-tokyo.ac.jp/>

## Connecting to the NanoRegime Through Force and Sound

- (1) Our chief interest lies in mechanical interactions in the atomic to the nano regime. We work on imaging and novel detection techniques. We are also looking into mechanical bio-sensing for assisted reproductive technology (ART).
- (2) We welcome young students and interns from all over the world.
- (3) We also organize MakerSpace “CampKomabaFour” for students and staff.

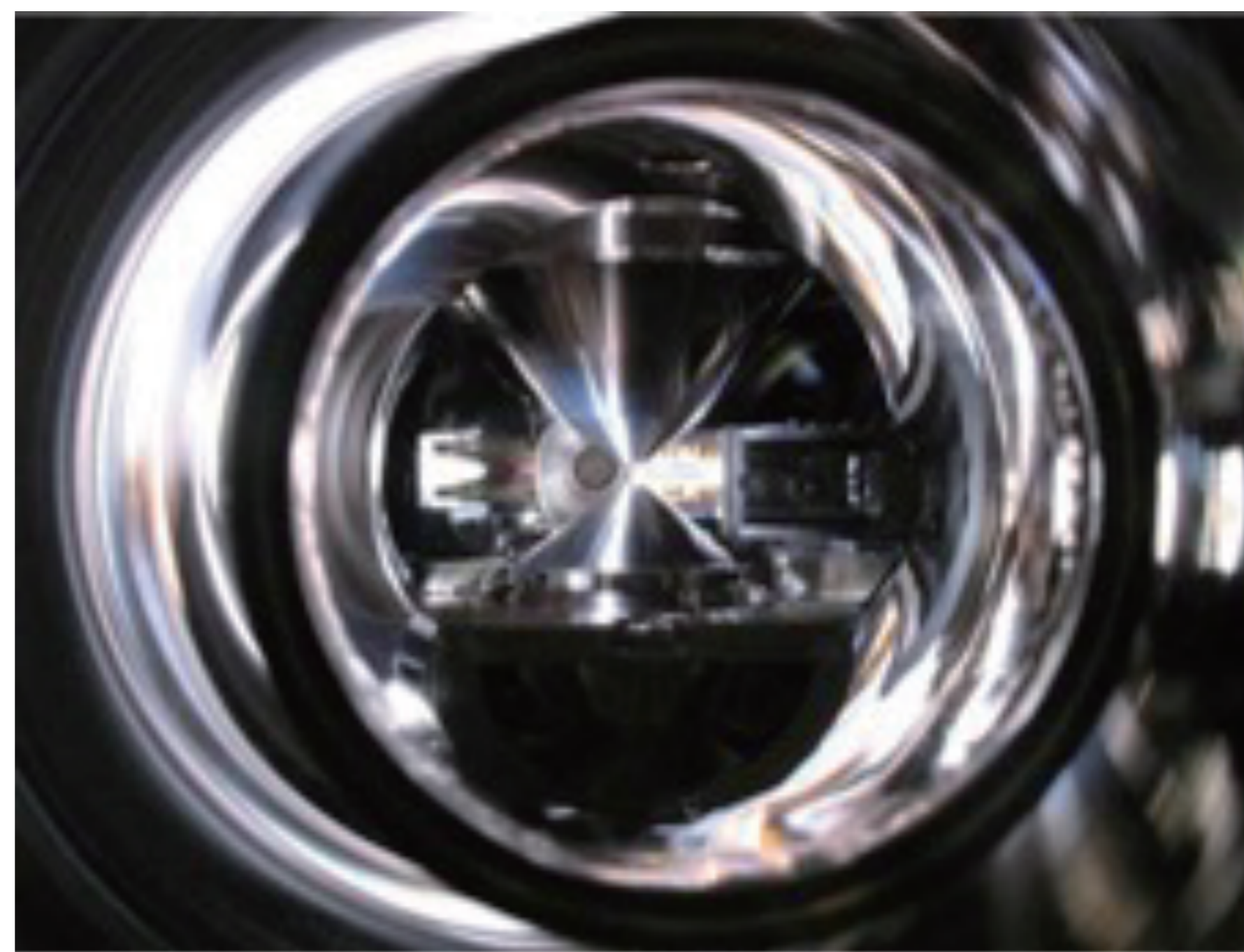
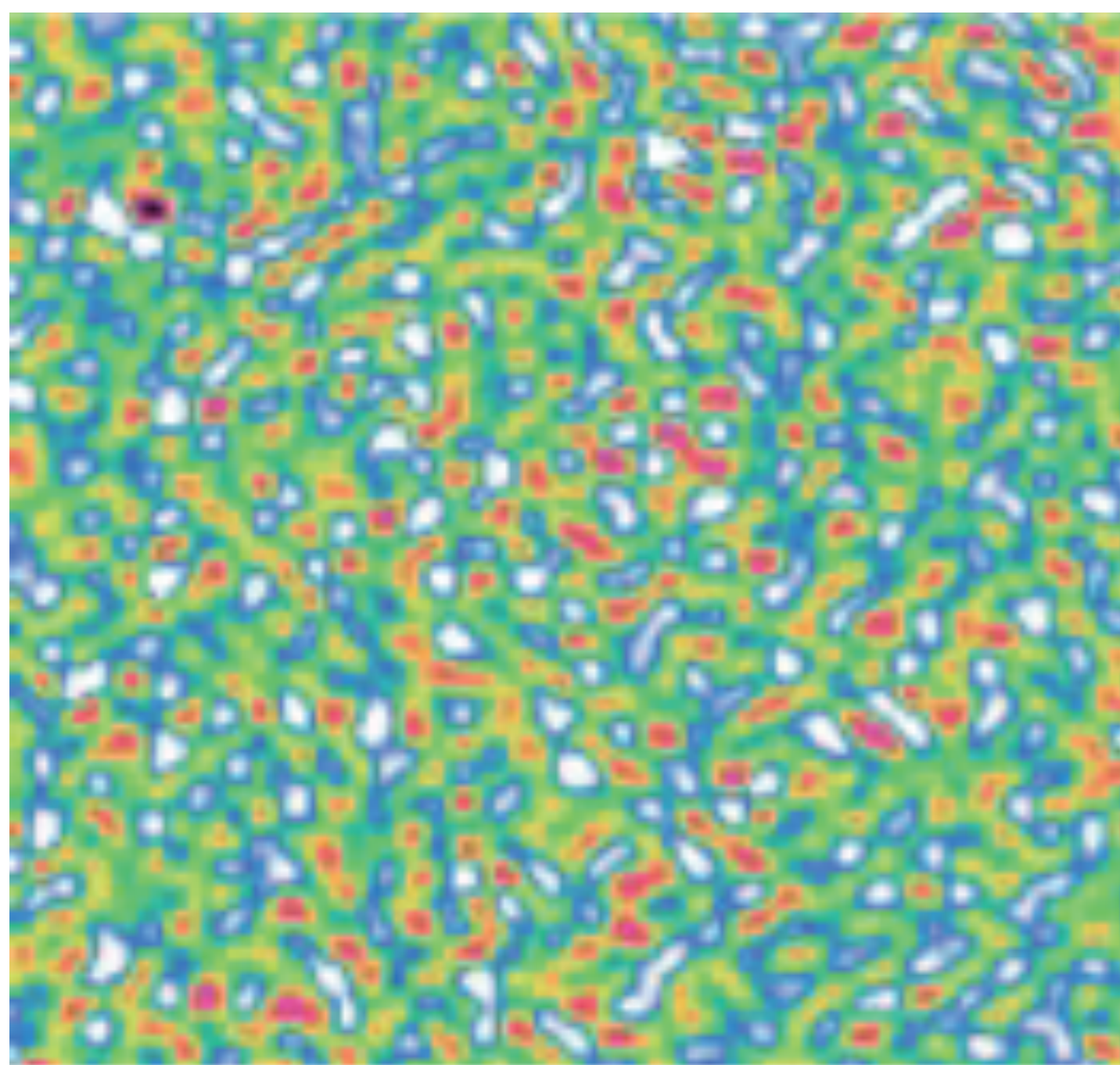


Fig1. Chemical contrast AFM

Fig.2 UHV TEM AFM

Fig.3 Liquid AFM

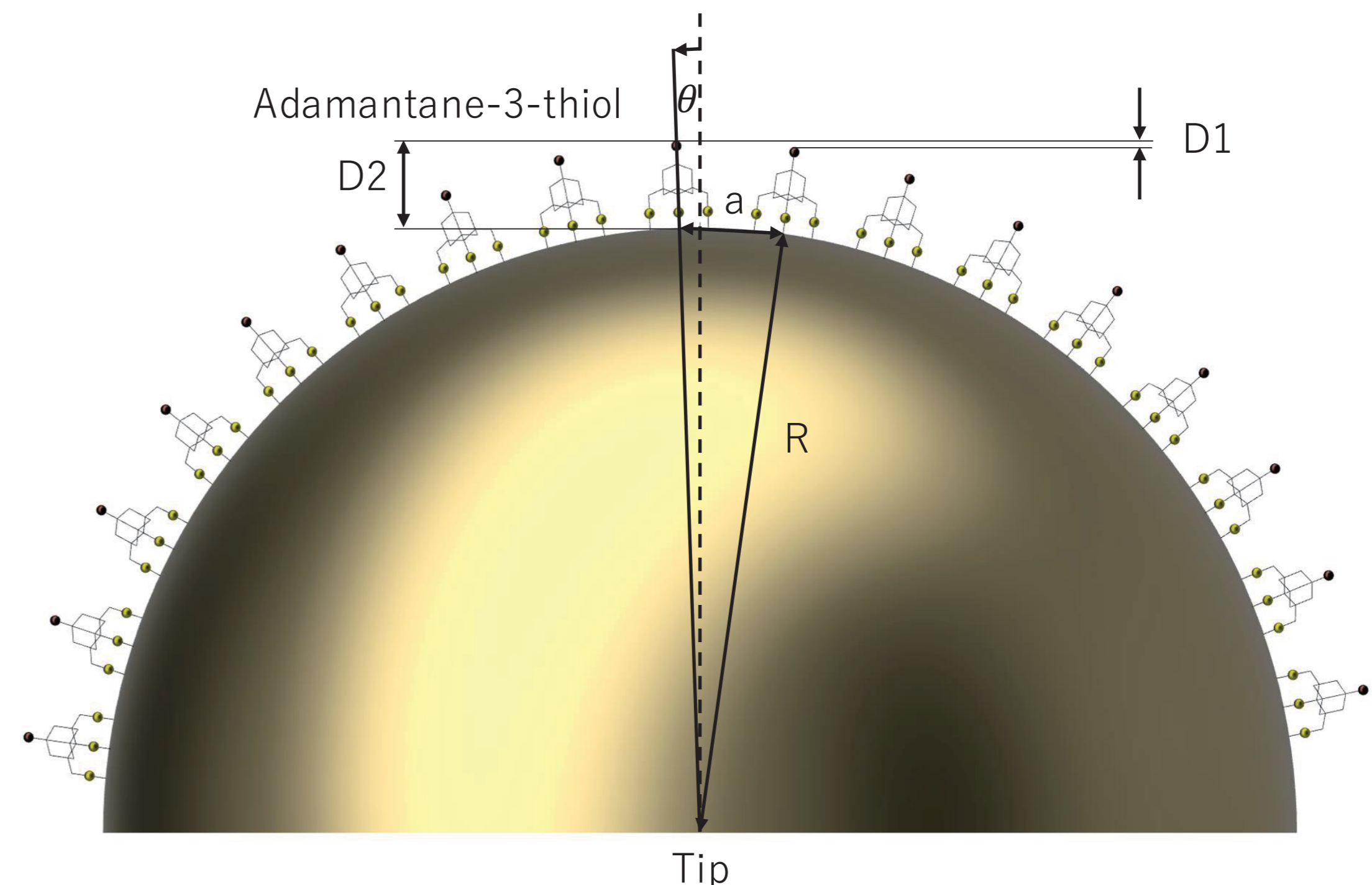
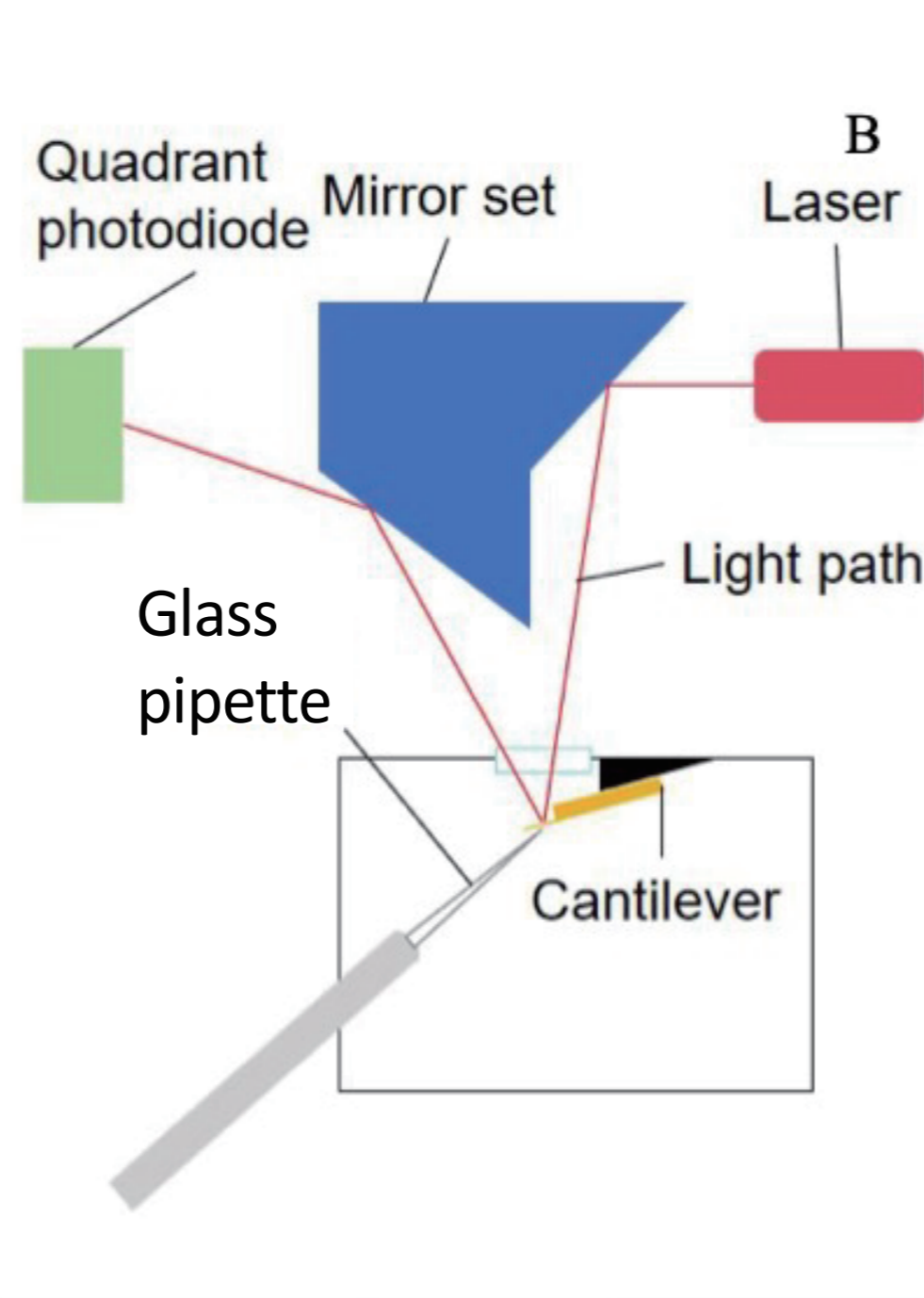
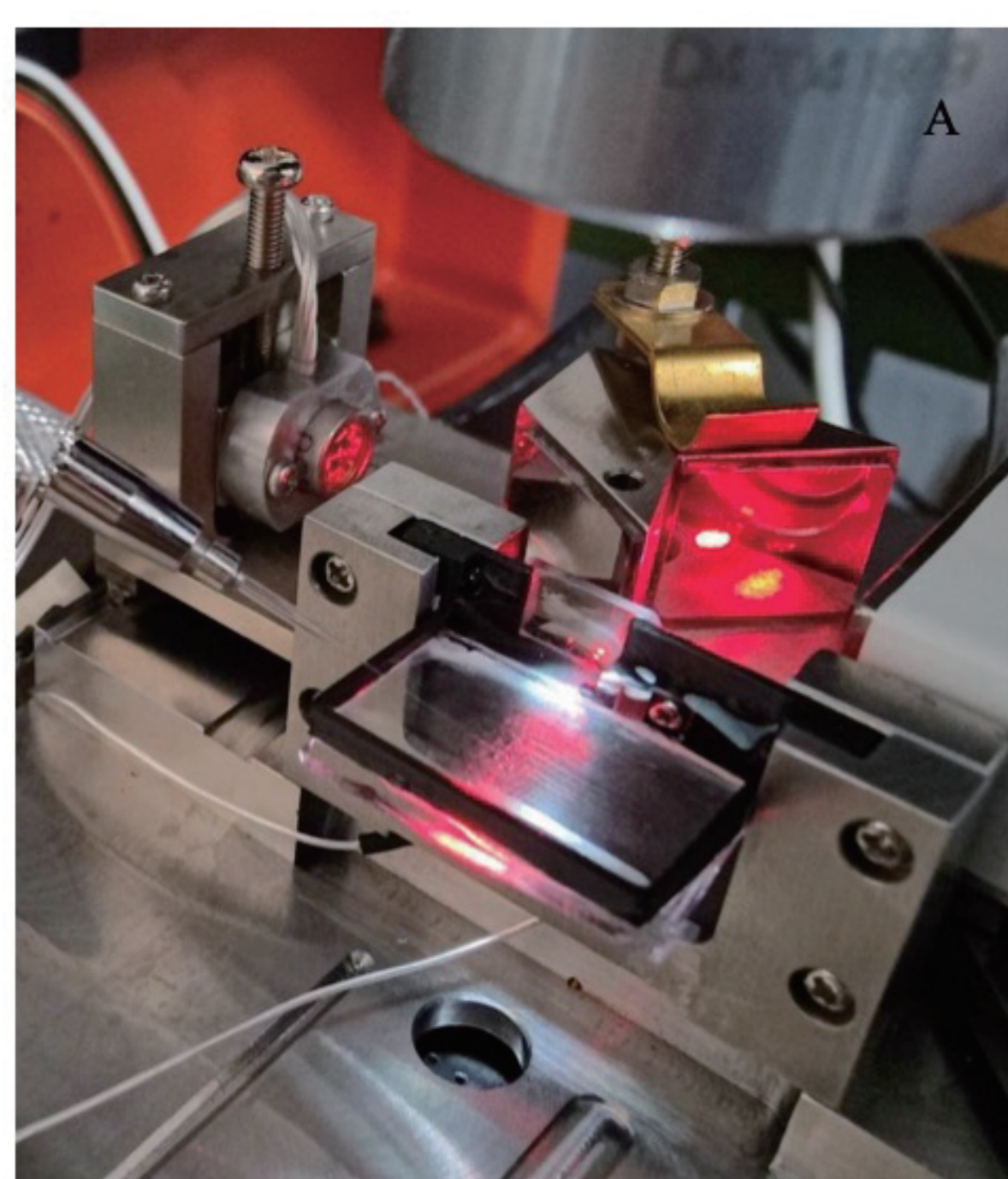


Fig4. AFM of Sperm-Egg fusion

Fig.5 Sharpening AFM tips with molecules