

KAWAKATSU LAB.

Touching Nano with Sound and Force



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

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Coupling to the Nano Regime through Force, Sound and Emission

- (1) Our chief interest lies in mechanical interactions in the atomic to the nano regime. We work on imaging mechanisms and novel detection techniques. We are also looking into possible application to 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 "CampKomaba4" for students and staff.

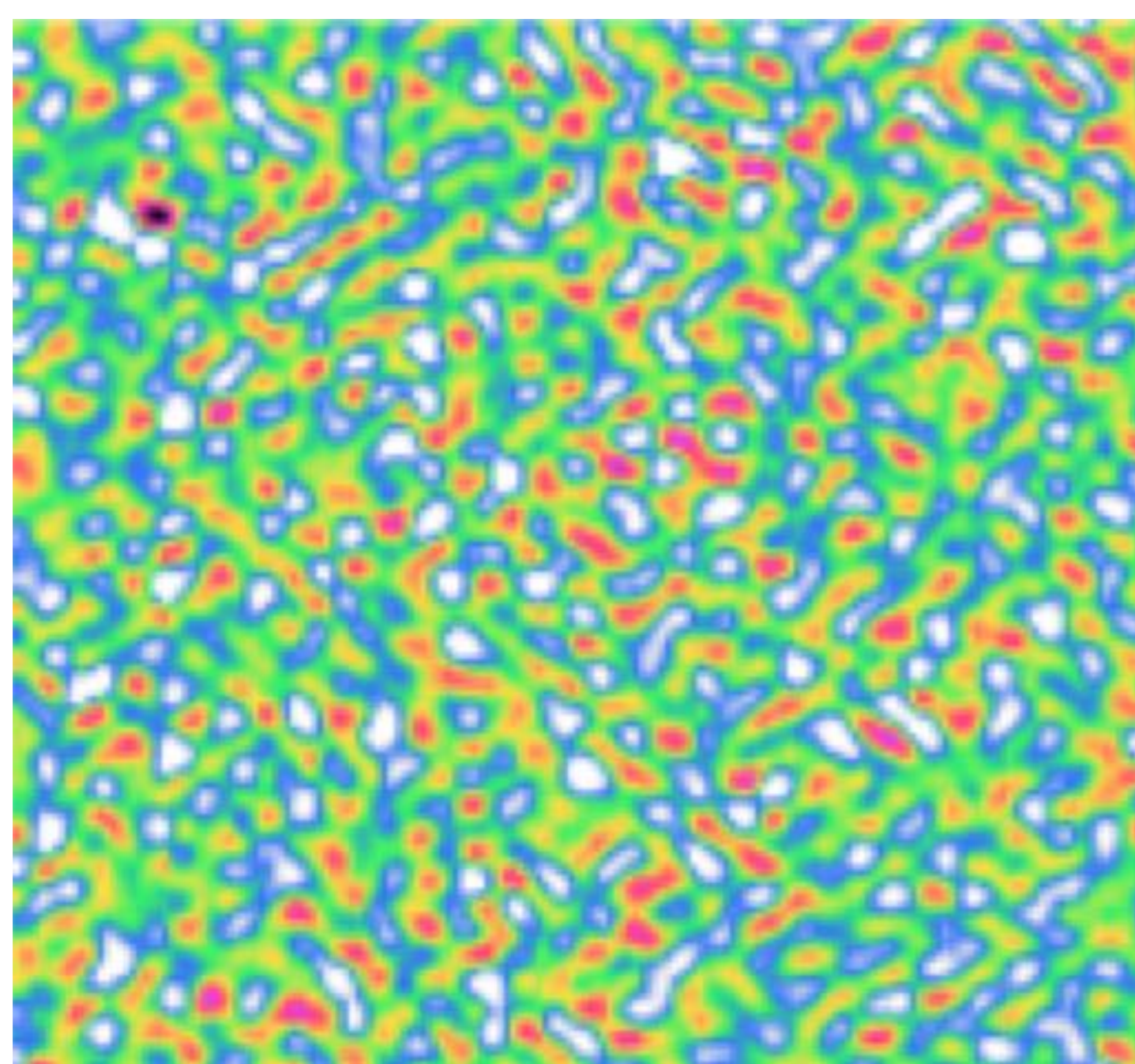


Fig1. Chemical contrast AFM



Fig.2 UHV TEM AFM

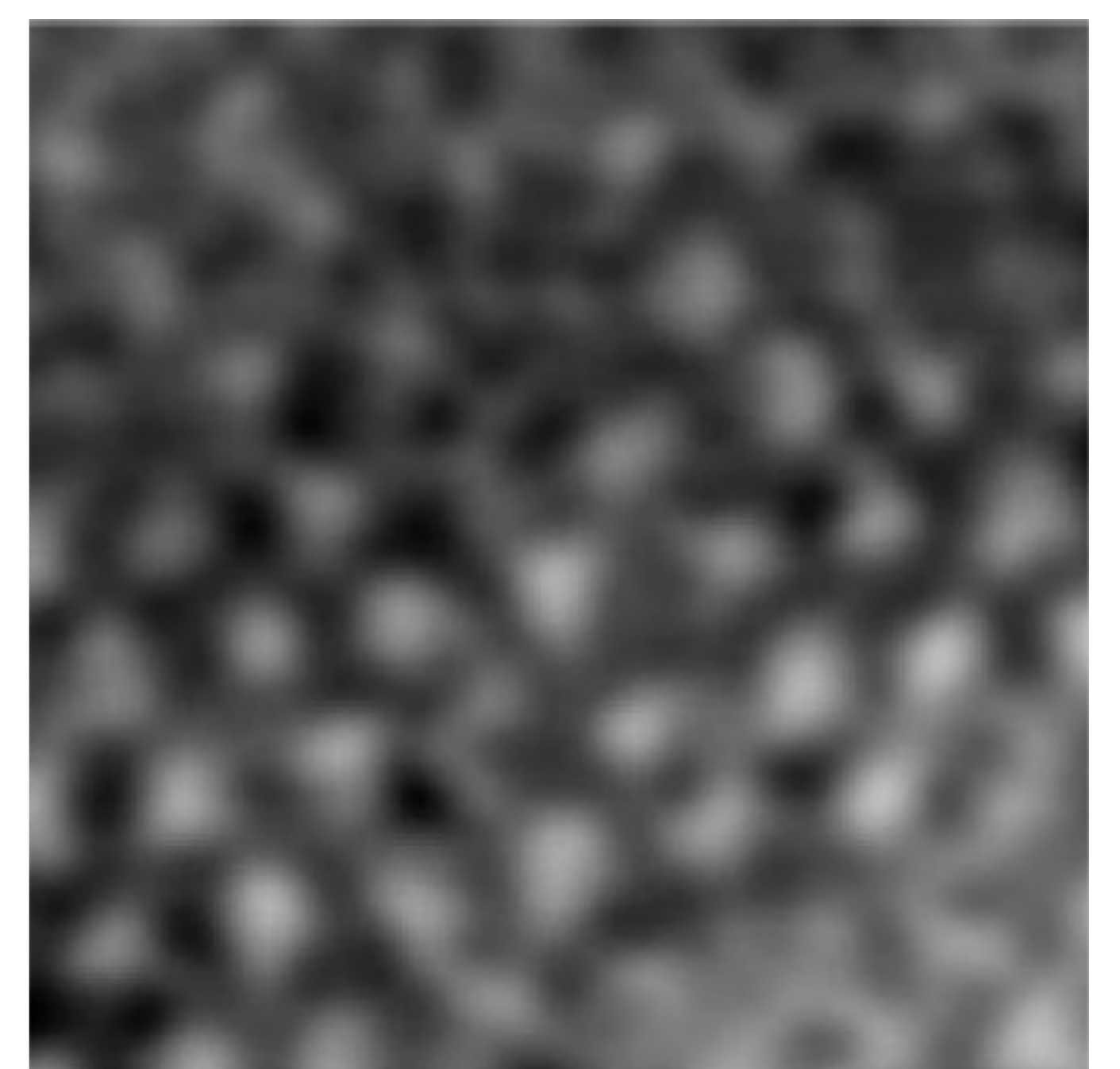


Fig.3 Liquid AFM

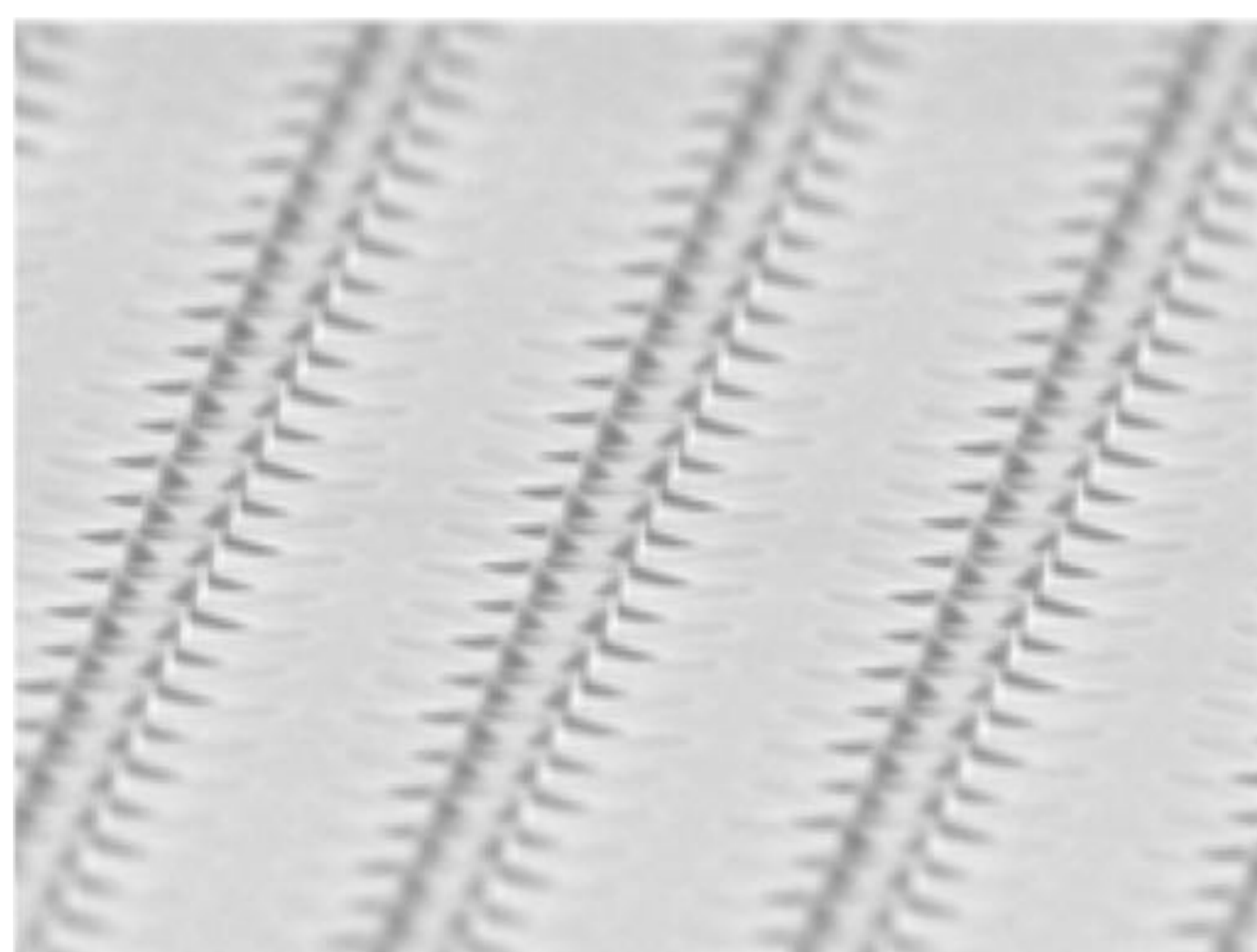


Fig4. Millions of cantilevers

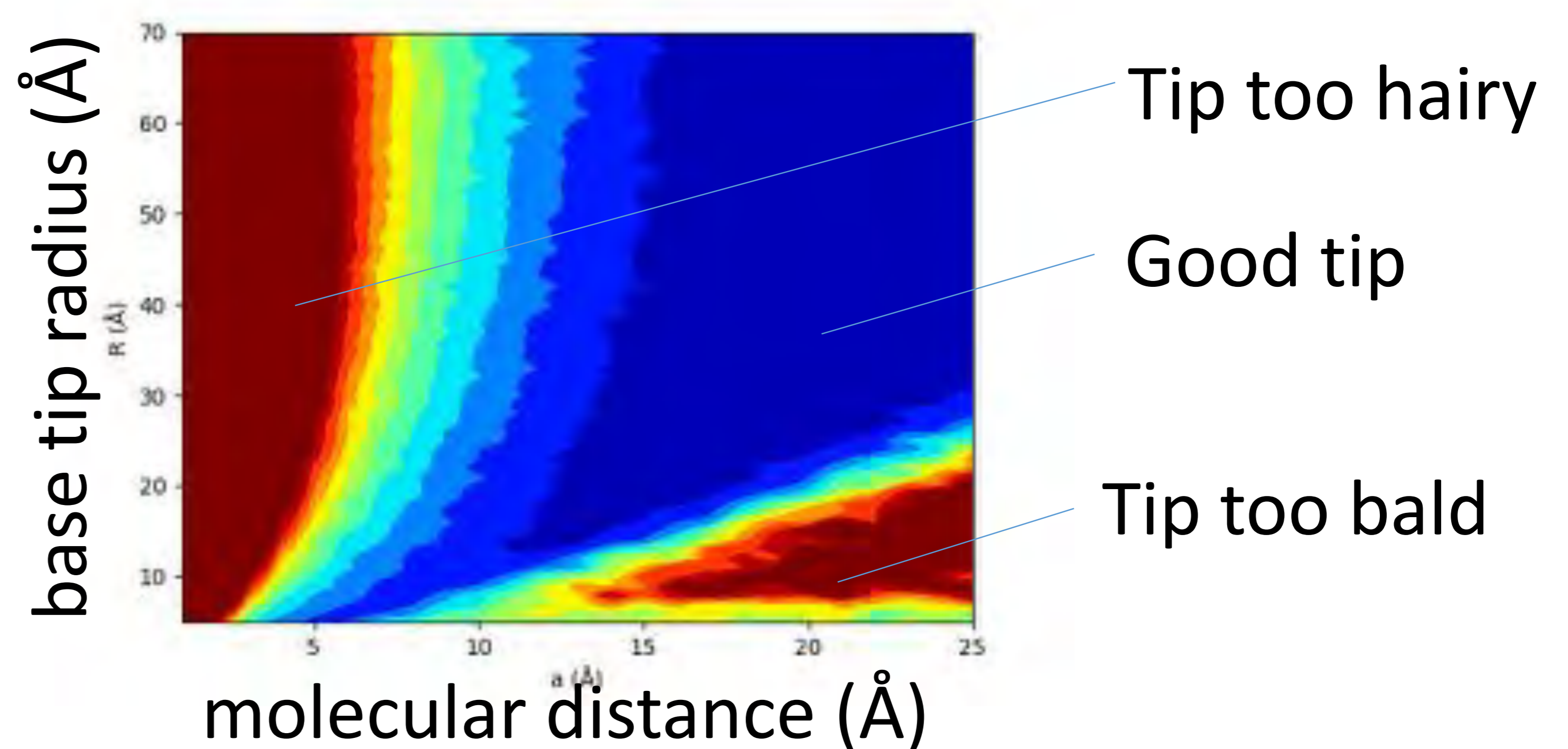


Fig.5 Ideal AFM tip by molecular functionalisation