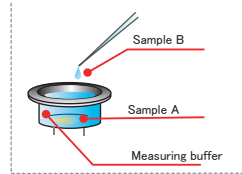


# Property change during molecular interactions

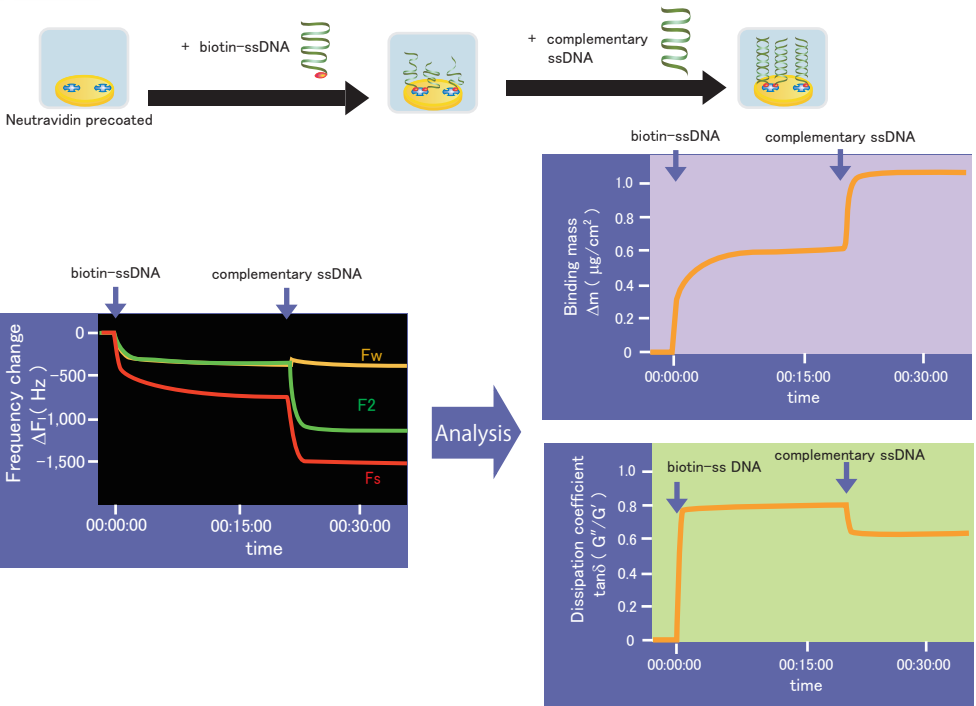
**Methods**

1. Add 5 $\mu$ L of measuring buffer and start measurement.
2. Add 5 $\mu$ L of sample A
3. Wash sensor and change buffer.
4. Add 5 $\mu$ L sample B



**Example**

## DNA hybridization



The data indicated that biotin-DNA bound to neutravidin, and complementary ssDNA relatively fastly bound to biotin-DNA at the same amount.

By the analysis of dissipation coefficient( $\tan \delta$ ), DNA structure become tightly and hardly by binding with complementary DNA.

**Application**

1. Comparison of viscoelasticity of adsorbates in various environment.
2. Speculation of structural change by molecular interaction.
3. Analysis of conformational change in thin-film and membrane.