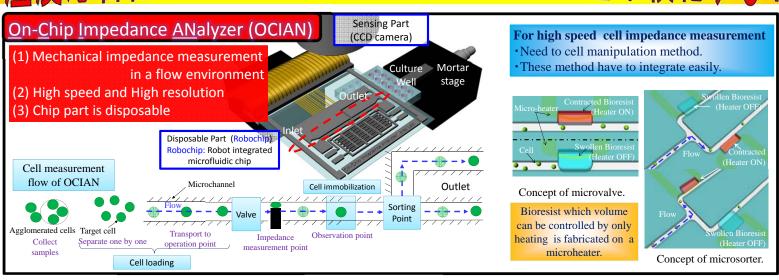
バイオレジストを用いた多機能マイクロ流体チップ

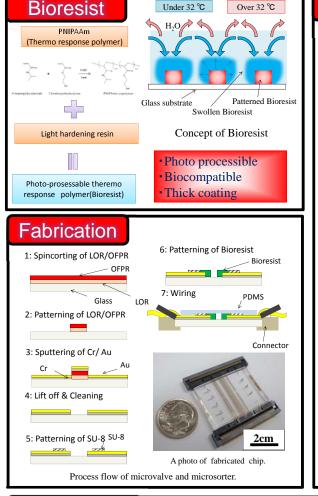


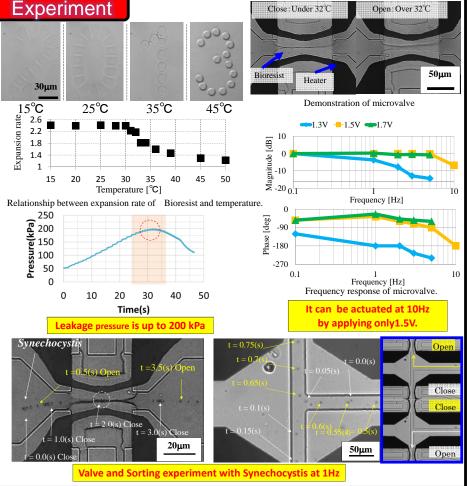
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温度応答性ゲルをパターン化し流体制御素子を集積化する







Conclusions

- 1. For the functional actuator which can be integrated in a miclofluidic chip, we proposed and fabricated gel actuator by using Bioresist and microheater.
- 2. Proposed gel actuator is actuated by only heating.
- 3. The response of fabricated microvalve is demonstrated at 10Hz by applying only1.5V and its leakage pressure is up to 200 kPa.



