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Supporting Information

Simple separation of good quality bovine oocytes by using a microfluidic device

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Microfluidic Device

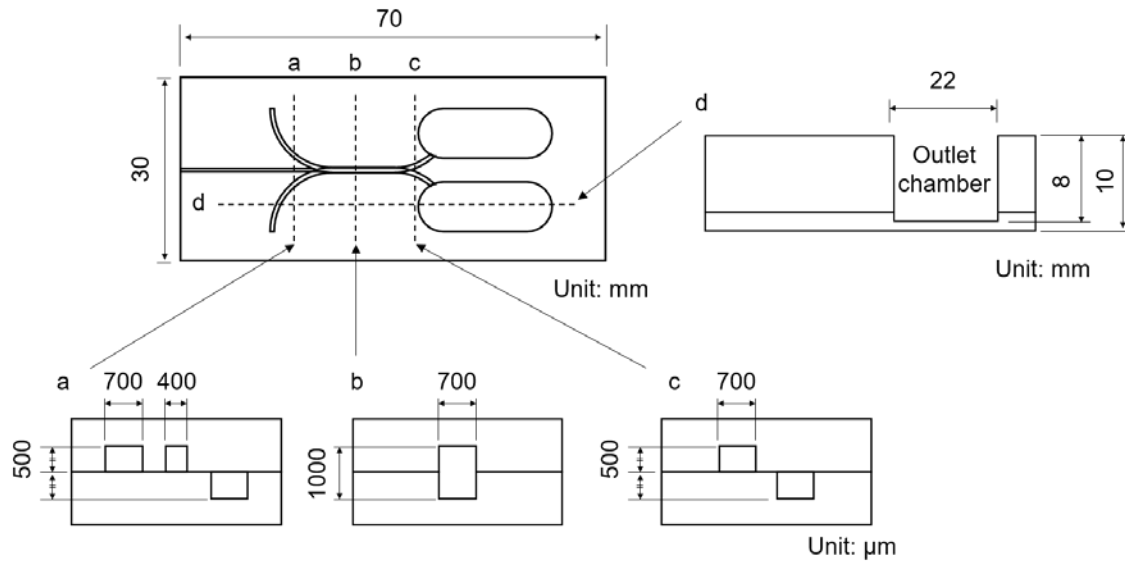


Fig. S1. Detailed dimension of microfluidic device used in this study.

BCB staining

After collection, COCs were washed in PBS containing 5% (v/v) FBS and were exposed to 26 mM of BCB (B-5388, Sigma) for 20 h at 38.5°C in a humidified atmosphere of 5% CO₂ in air. Following BCB staining, COCs were washed twice in PBS containing 0.05 wt% PVA, and were divided into BCB⁺ group (blue colored cytoplasm) and BCB⁻ group (colorless cytoplasm) depending on oocyte cytoplasm coloration. Each group was applied to IVM followed by IVF.

Separation of Oocyte

A movie was provided (SI movie).