

Rapid Responses of Human Pluripotent Stem Cells

to Cyclic Mechanical Strains Applied to Integrin by Acoustic Tweezing Cytometry

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Supplementary Figures

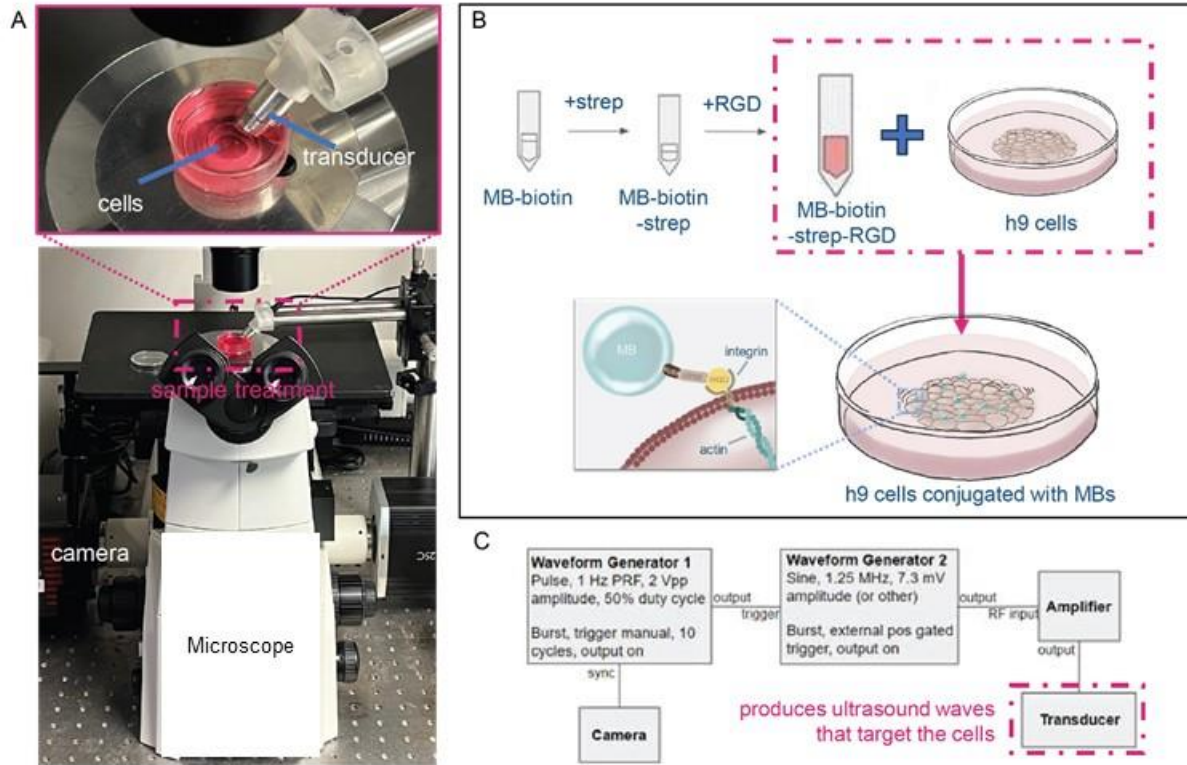


Figure S1. (A) Representative photos of ATC experimental set-up. (B) Microbubble Conjugation Procedures (C) Electronic equipment setup for ATC.

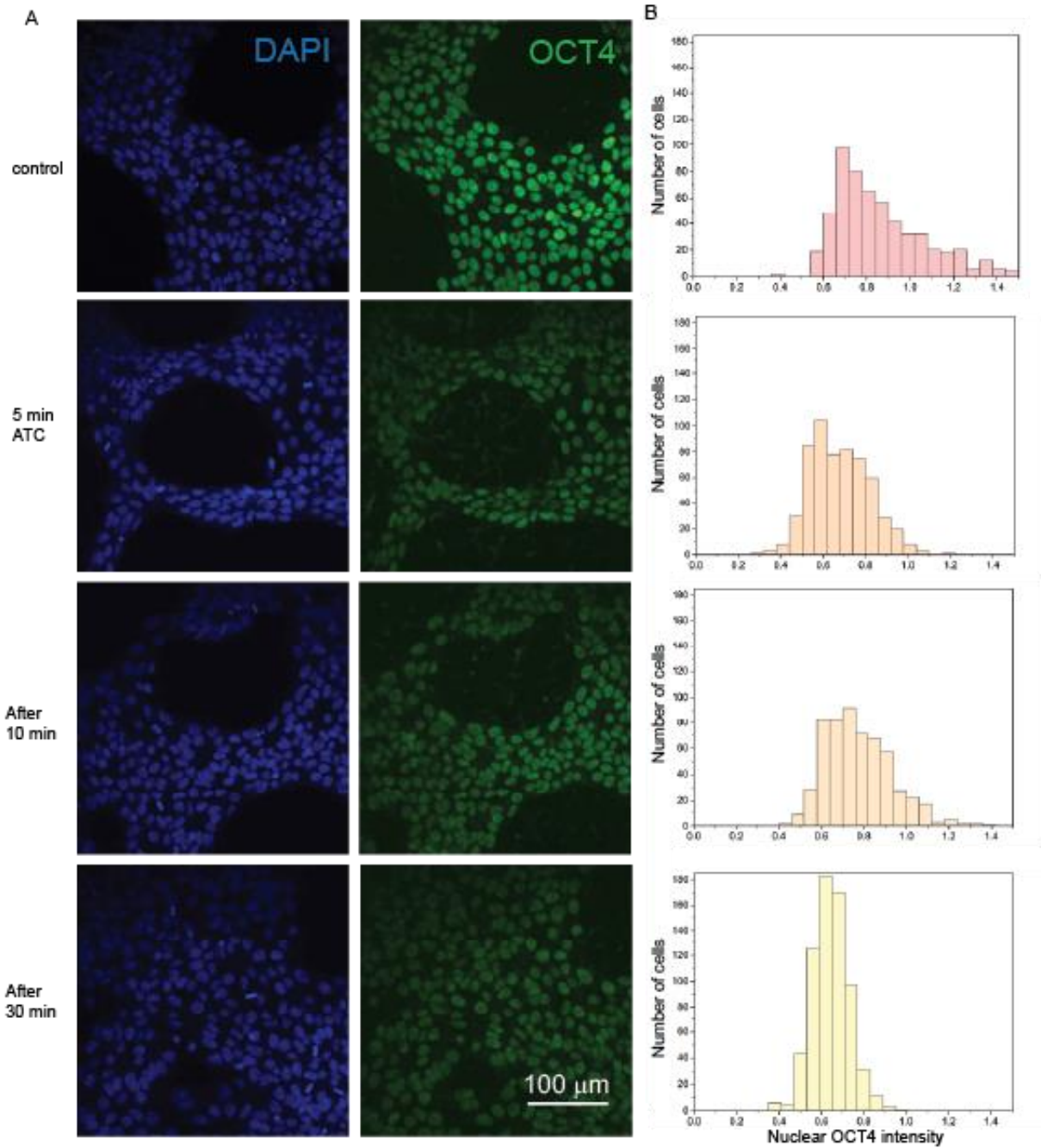


Figure S2. (A) Representative immunostaining images showing OCT4 expression in hPSCs immediately after ATC treatment, 15.0 min, and 30.0 min post-ATC, respectively. Cells in all groups were treated by ATC for 5.0 min. (B) Histogram showing OCT4 expression in hPSCs in each group (control, immediately after ATC treatment, 10 min post-ATC, and 25min post-ATC). Data were collected from 9 samples from three independent experiments for each group.

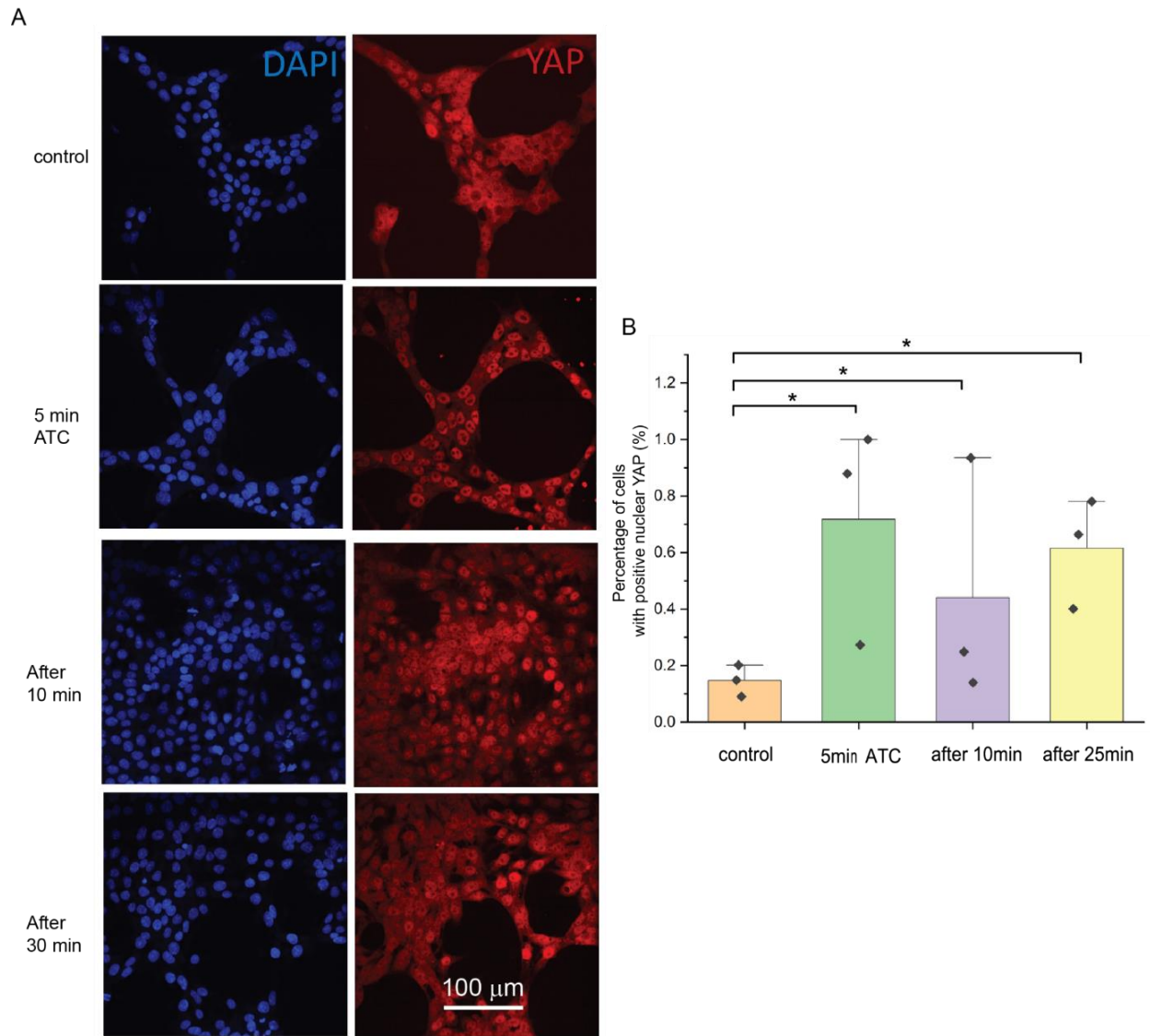


Figure S3. (A) Representative immunostaining image showing YAP nuclear translocation in hPSCs detected at 5.0 min, 10.0 min, and 25.0 min respectively after 5.0 min ATC treatment. (B) Nuclear localization of YAP in hPSCs assayed immediately after 5.0 min ATC treatment, 10 min post-ATC, and 25min post-ATC. Cells in all groups were treated by ATC for 5.0 min.