

Supporting Information

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Opsin-Free Activation of Bmp Receptors by a Femtosecond Laser

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Supplementary Figures

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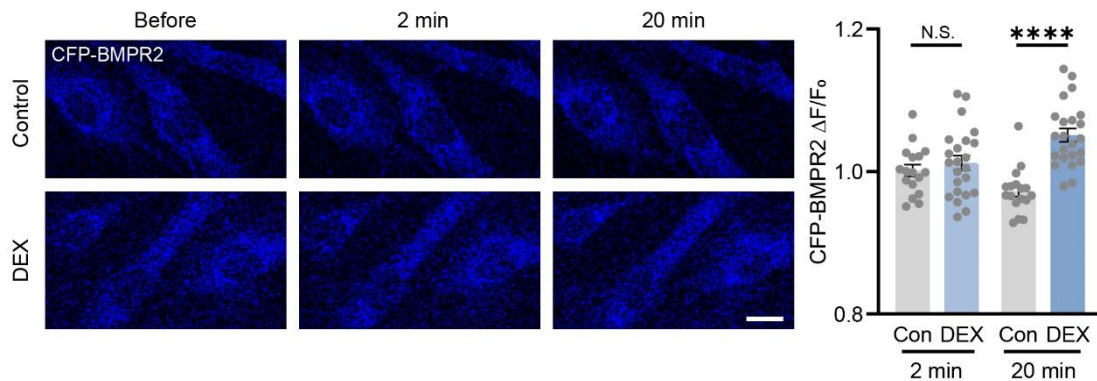


Fig. S1. CFP-BMPR2 and YFP-BMPR1a FRET test indicated by CFP fluorescence after DEX treated (n=23 cells in 3 independent trials). Control: ADSCs without any treatment (n=17 cells in 3 independent trials). Scale bar: 20 μ m. Right panel: quantified CFP fluorescence after DEX treated. **** $P < 0.0001$ by two-tailed unpaired t test. N.S., no significant difference.

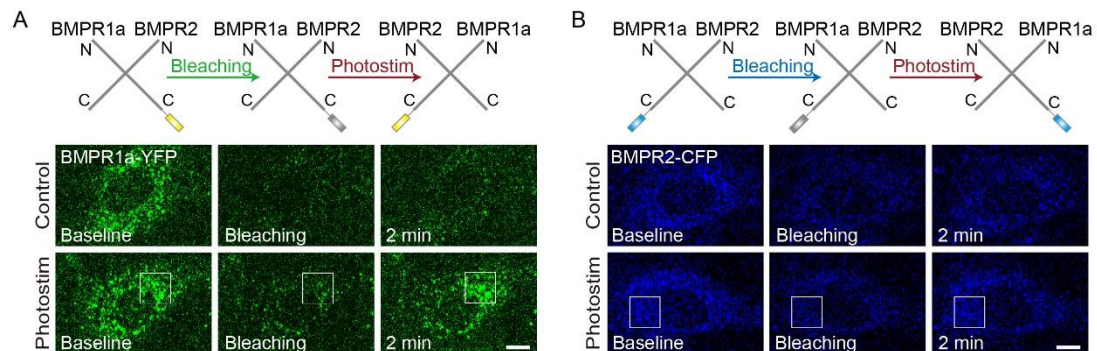


Fig. S2. Pre-bleached BMPR1a-YFP (A) and BMPR2-CFP (B) recovered after photostimulation. Boxes, photostimulation region. Scale bar: 10 μ m.

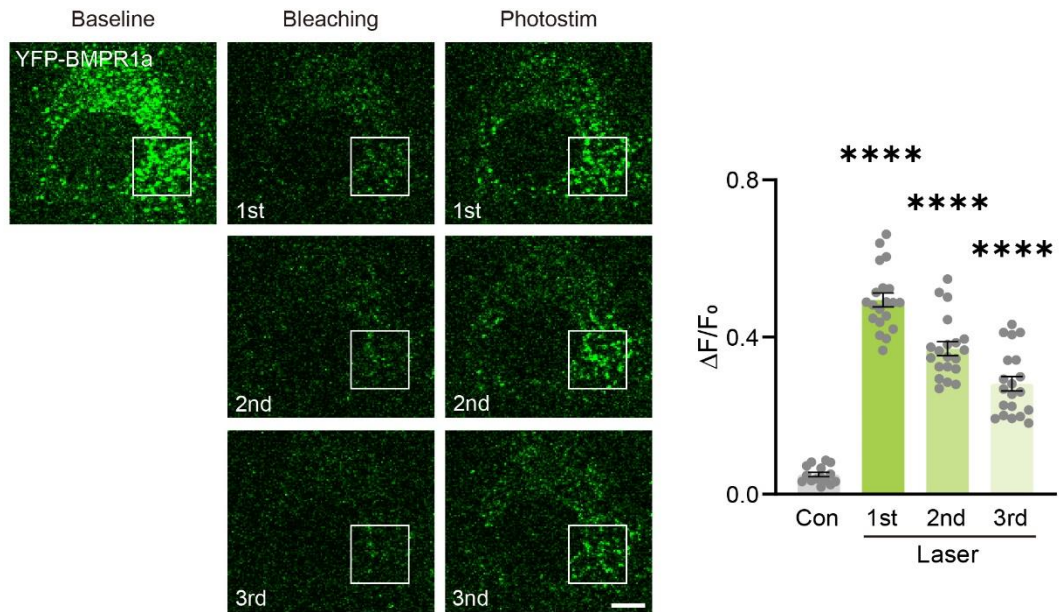


Fig. S3. BMPRIa-YFP recovered after photobleaching and photostimulation (n=20 cells in 3 independent trials) for multi-times. Boxes, photostimulation region. Scale bar: 10 μm . Right panel: quantified recovered ratio of YFP fluorescence. **** $P < 0.0001$ by one-way ANOVA analysis corrected by Dunnet's post-hoc.