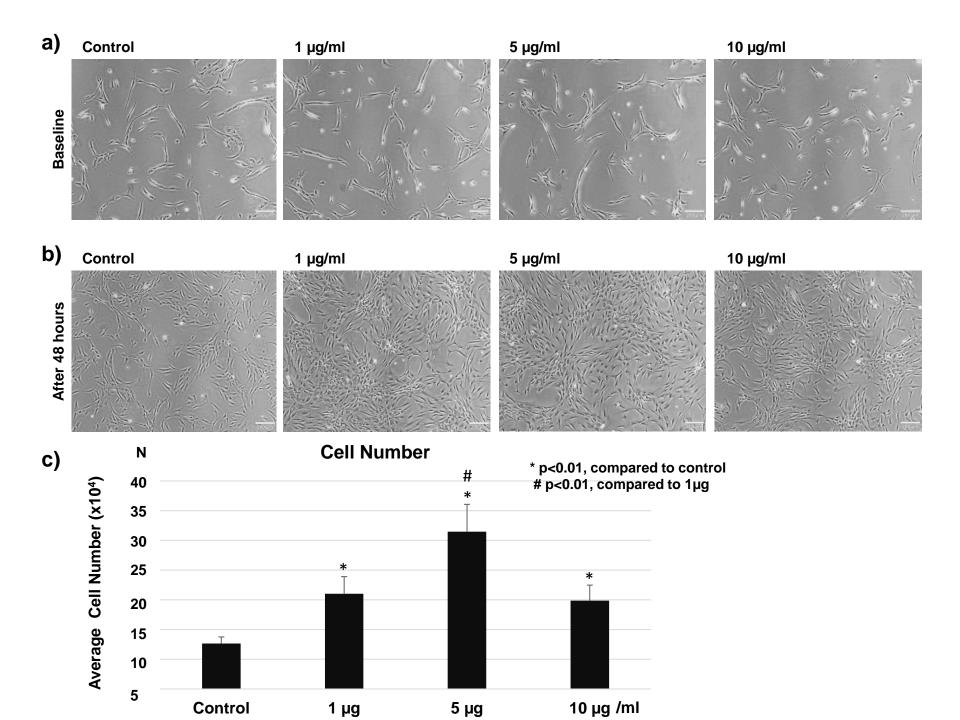
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Hamidullah Salimi, Akinobu Suzuki*, Hasibullah Habibi, Kumi Orita, Yusuke Hori, Akito Yabu, Hidetomi
Terai, Koji Tamai, and Hiroaki Nakamura
Department of Orthopaedic Surgery, Osaka City University Graduate School of Medicine, Osaka, Japan

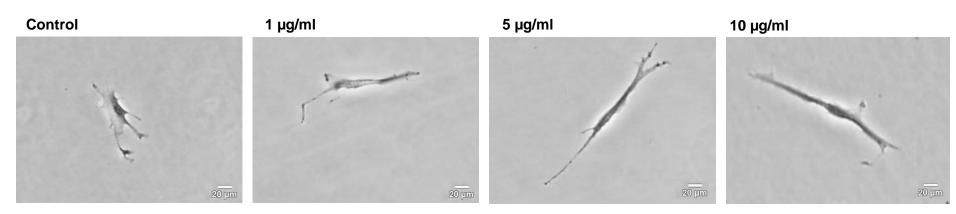
Supplementary Information

Supplementary Figure S1. Effect of BGN on the proliferation of cells from non-hypertrophied (control) LF. Cell numbers before (a) and 48 h after (b) incubation with different concentrations of BGN, and c) total cell number at 48 h for each concentration of BGN.



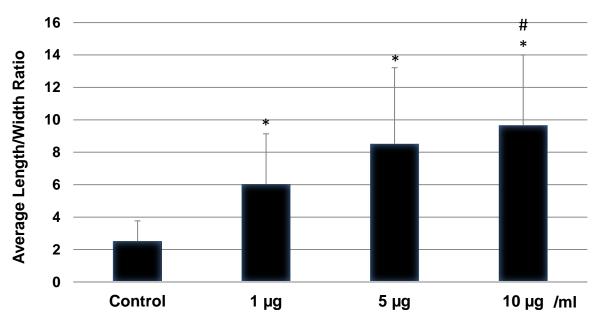
Supplementary Figure S2. a) Cell morphology, and b) average length per width ratio of cells from non-hypertrophied (control) LF upon stimulation with different BGN concentrations.

a)



b)

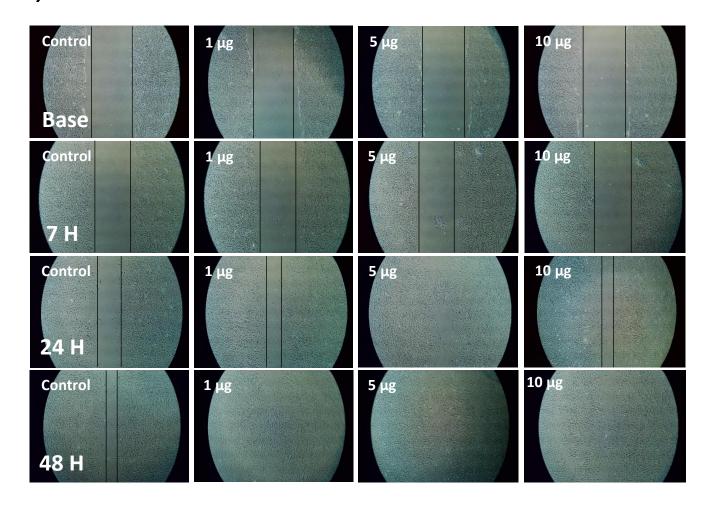
LENGTH/WIDTH RATIO

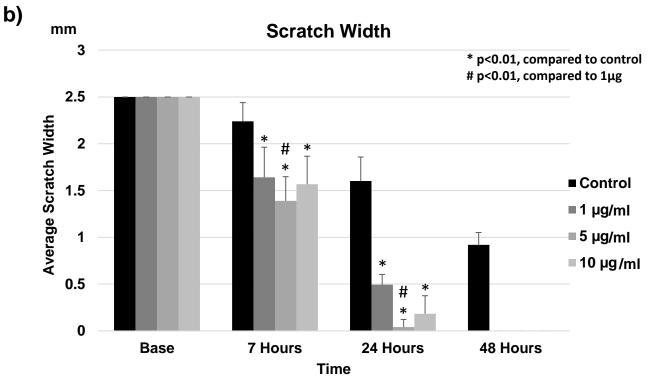


* p<0.01, compared to control # p<0.01, compared to 1µg

Supplementary Figure S3. a) Immunocytochemistry for vimentin and α -SMA in the cells from non-hypertrophied (control) LF with the treatment of TGF- β , BGN, and the combination, b) the average percentage of α -SMA positive cells in each group.

a)





Supplementary Figure S4. Effect of BGN on the migration of cells from non-hypertrophied (control) LF. (a) Scratch healing assay of LF cells at each time point after incubation with different concentrations of BGN. The black line indicates the wound borders. (b) Distance between the two wound borders for each BGN concentration at each time point.

