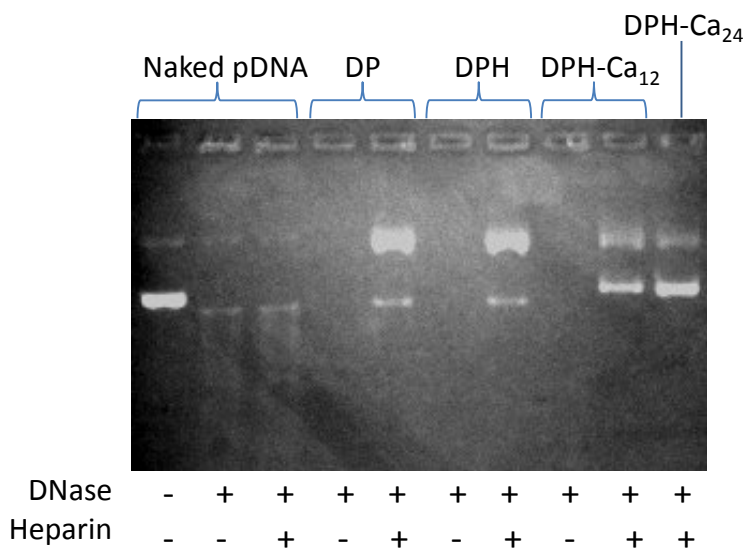


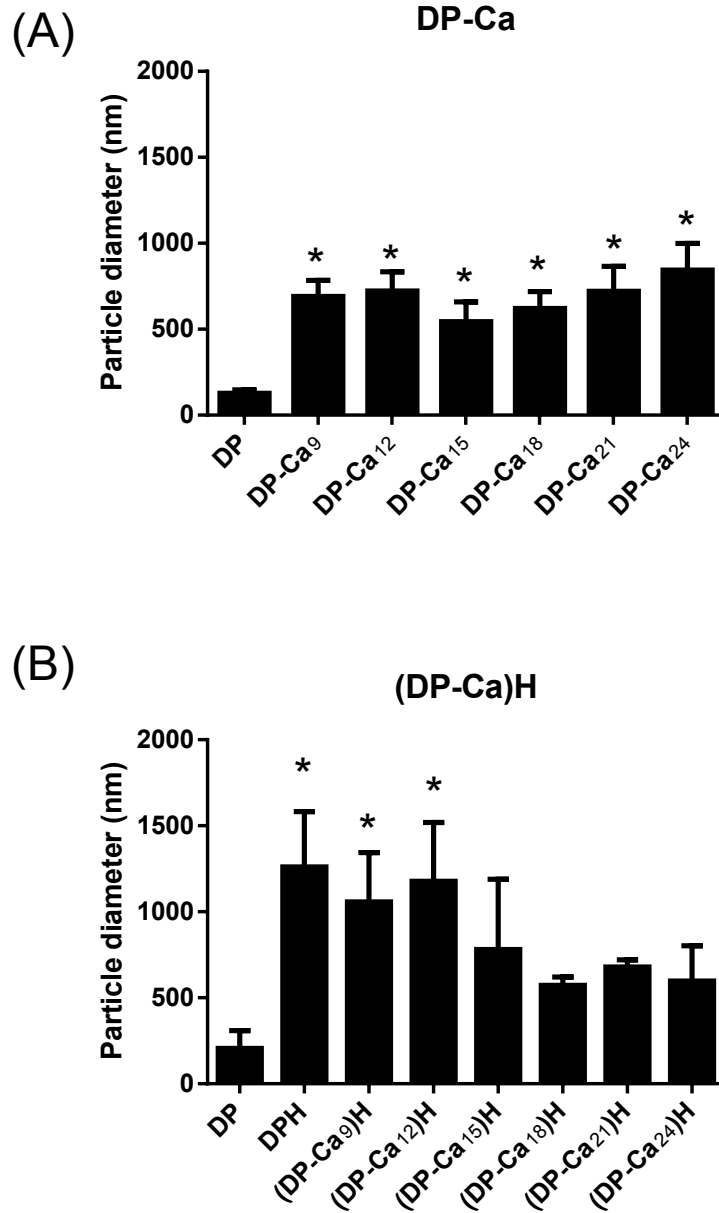
Stabilization of a hyaluronate-associated gene delivery system using calcium ions

Min Feng^{1,†}, Basma M. Ibrahim^{2,†}, Erin M. Wilson², Kyung-Oh Doh², Brandon Bergman², Christopher Park², and Yoon Yeo^{2,3,4*}

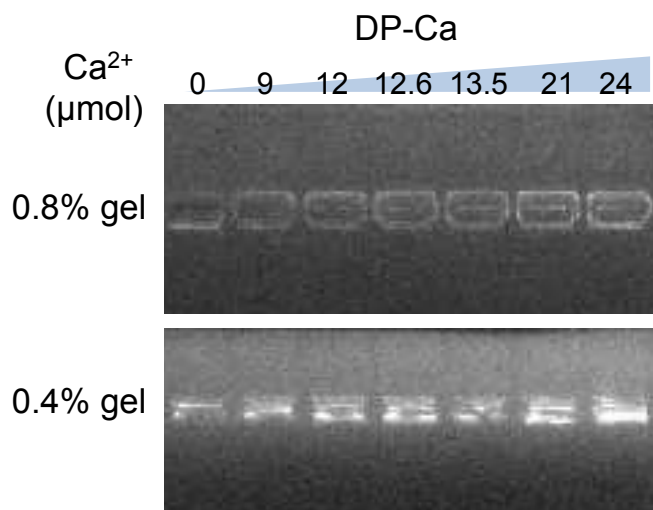
Supporting Figures



Supporting Fig. 1. Stability of naked pDNA, DP, DPH, and DPH-Ca complexes in the presence of DNase and heparin.



Supporting Fig. 2. (A) Particle sizes of DP-Ca complexes prepared with different amounts of CaCl₂ (numbers indicate μmol of CaCl₂ per 1 μg pDNA). All the DP-Ca were significantly larger than DP (*: $p < 0.05$ by Tukey test); no significant difference among DP-Ca's. (B) Particle sizes of (DP-Ca)H complexes, where DP-Ca complexes were first formed varying the amount of CaCl₂ (numbers indicate μmol of CaCl₂ per 1 μg pDNA), and HA was added subsequently (1 μg of HA per 1 μg pDNA). *: $p < 0.05$ vs. DP by Tukey test; no significant difference between DPH vs. (DP-Ca)H's.



Supporting Fig. 3. Gel retardation assay of DP-Ca formed with different amounts of Ca²⁺, performed at two gel concentrations (0.8% and 0.4% agarose gels).