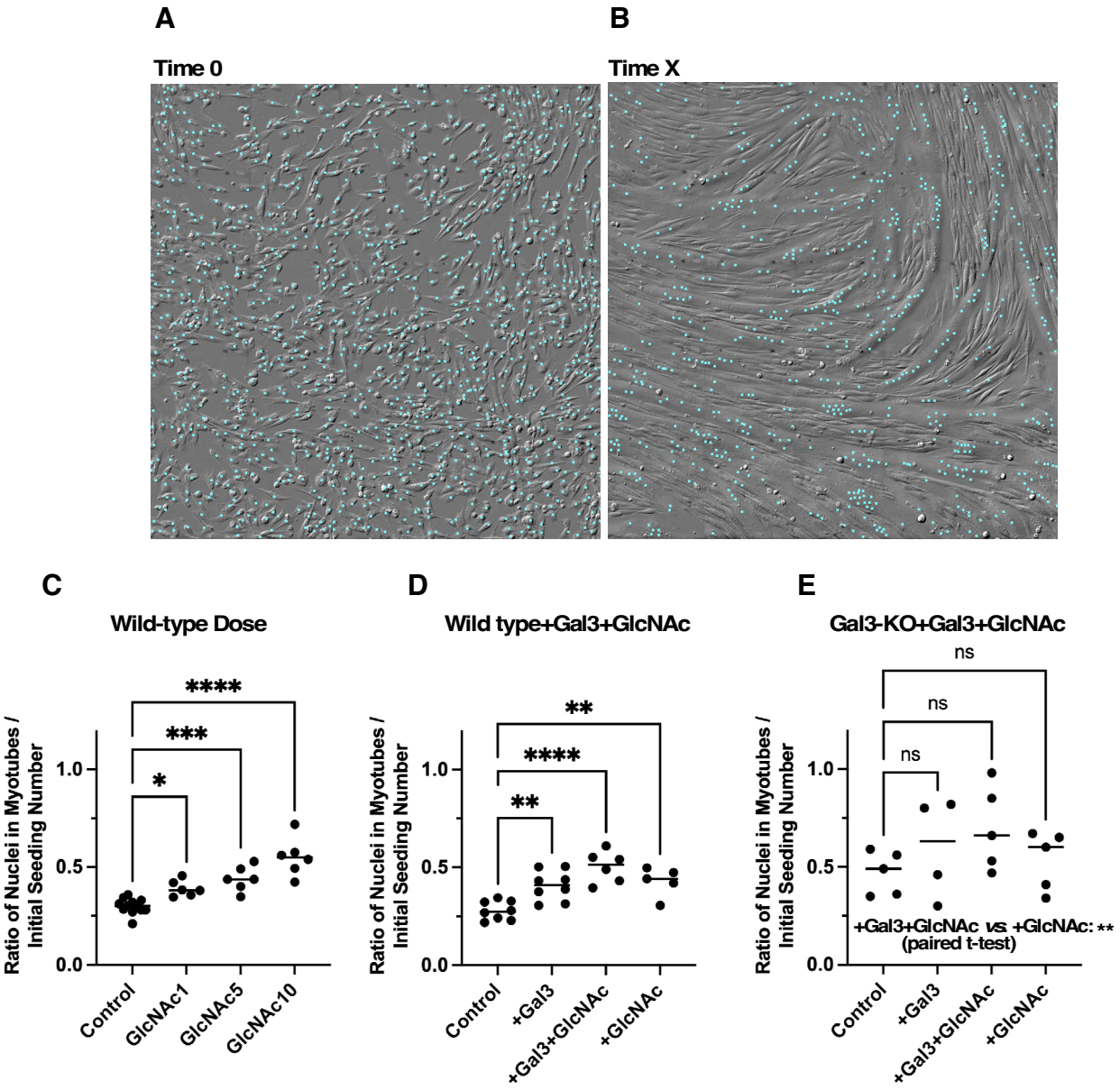

Supplementary Fig. 1. Preliminary analysis of the effect of Gal-3 and GlcNAc on myotube formation in wild-type and Gal-3KO myoblasts.

A and B. These panels illustrate the method for counting myoblasts at Time 0 (**A**) and nuclei in myotubes at Time X (**B**) using in-house software. The exact time for counting, indicated as "Time X," varies and is detailed in Supplementary Data 1. **C.** The ratio of nuclei in myotubes to the initial number of nuclei in wild-type myoblasts at Time 0 was determined and plotted for different doses of GlcNAc. **D.** The ratios for wild-type myoblasts treated with Gal-3, GlcNAc, or a combination of Gal-3 and GlcNAc were determined. **E.** The ratios for Gal-3KO myoblasts treated with Gal-3, GlcNAc, or a combination of Gal-3 and GlcNAc were determined. **C-E.** A One-way ANOVA with Tukey's post hoc test was performed. Statistical significance is indicated as *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001, and "ns" for no significance. While the ratio for Gal-3KO myoblasts treated with Gal-3, GlcNAc, or Gal-3 with GlcNAc **(E)** showed a similar trend to that of the wild-type cells (**D**), no statistical significance was found by the One-way ANOVA. A paired t-test between the +Gal-3 and +Gal-3+GlcNAc conditions showed **P < 0.01 significance; however, given the potential for statistical error due to the limited dataset, this finding is considered only indicative.