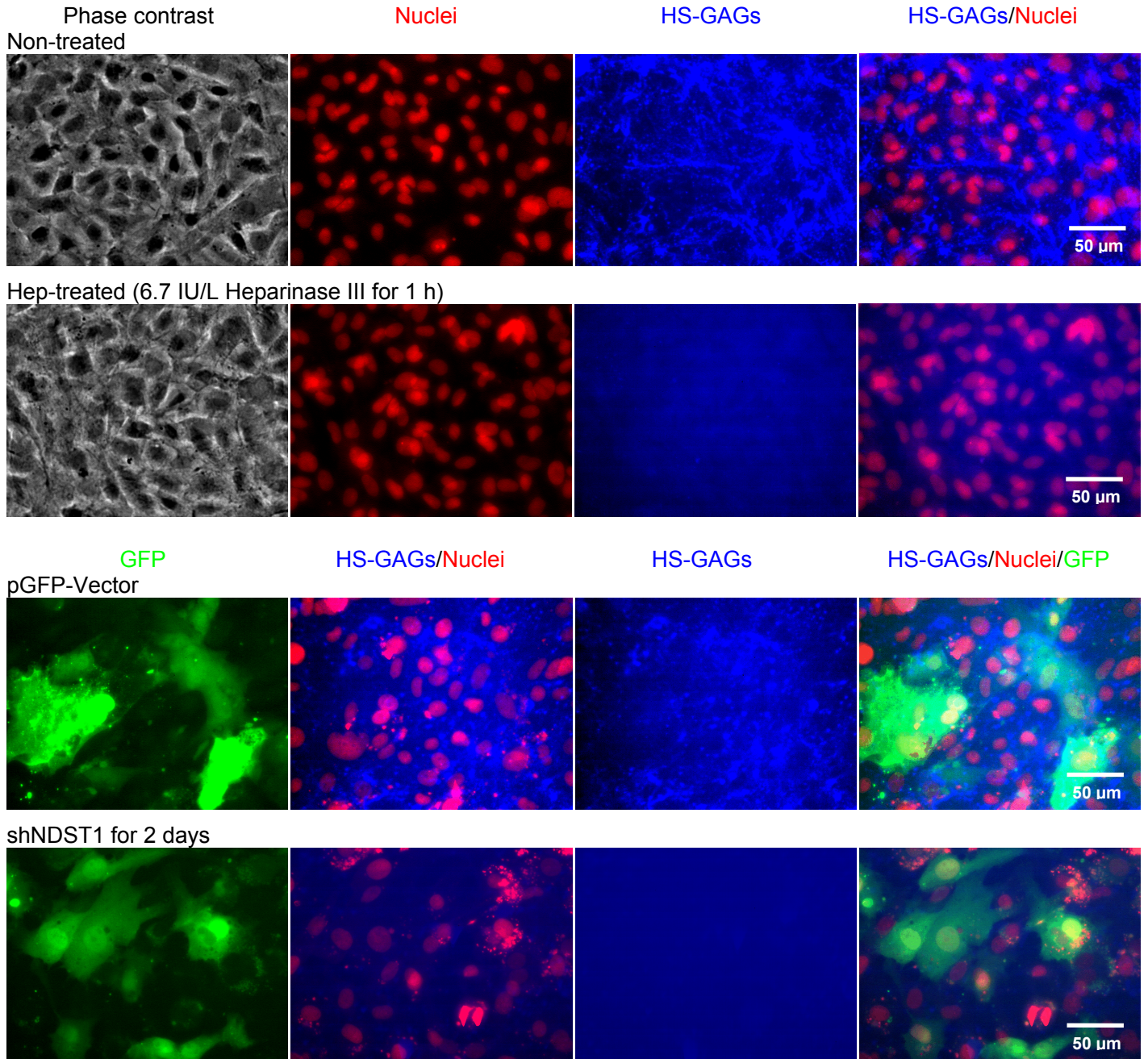


## Disruption of cell surface glycoalyx heparan sulfate by heparinase III and NDST1 knockdown



Green: GFP; Blue: Alexa Fluor 350; Red: PI

Besides immunostaining for evaluation of HS-GAG production after NDST1 knockdown, we also assessed the efficacy of NDST1 knockdown by RT-qPCR and we observed 40~50% inhibition of NDST1 mRNA after 1 to 3 days with 15  $\mu$ g plasmid per T-75 flask. This knockdown efficiency was enough to significantly reduce heparan sulfate production and attenuate flow-induced cell motility and MMP expression. The cells were used for experiments 2 days after transfection.