

# **Hyaluronan abrogates imatinib-induced senescence in chronic myeloid leukemia cell lines**

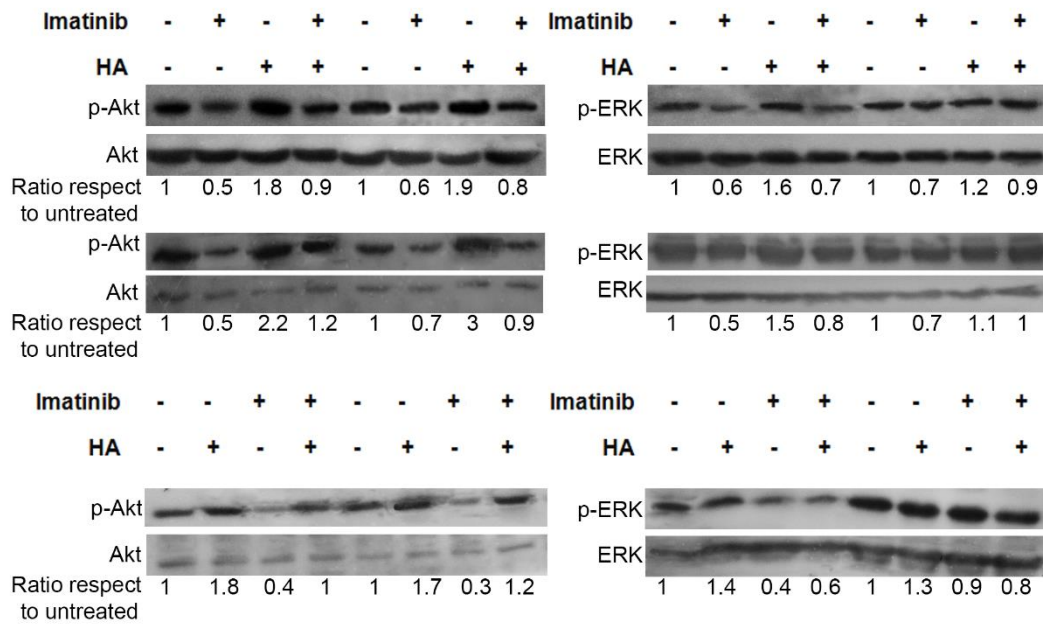
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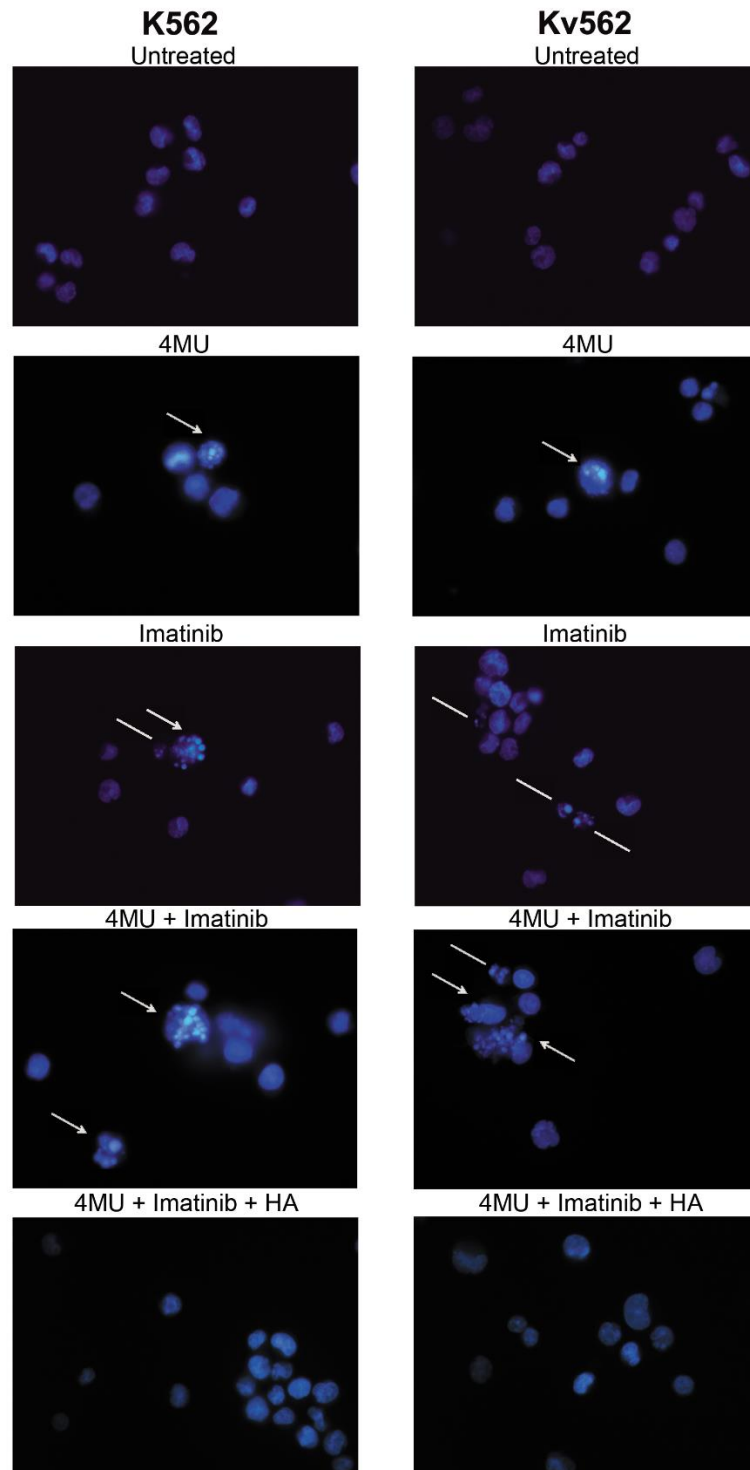
†SL and MD contributed equally to the realization of this work.



Supplementary **Fig S1**. Biological replicates of WB assays. Cells were treated either with imatinib (0.5 $\mu$ M for K562 and 2 $\mu$ M for Kv562 cells), 300  $\mu$ g/ml HA or a combination of both for 24 h. The phosphorylation of Akt and ERK was evaluated by WB. Each experiment was performed at least five times independently. The ratio was calculated as:

$$\text{Ratio} = \frac{[(pAkt/\beta\text{-actin}) / (Akt/\beta\text{-actin})]_{\text{treated}}}{[(pAkt/\beta\text{-actin}) / (Akt/\beta\text{-actin})]_{\text{untreated}}}$$

$$\text{Ratio} = \frac{[(pERK/\beta\text{-actin}) / (ERK/\beta\text{-actin})]_{\text{treated}}}{[(pERK/\beta\text{-actin}) / (ERK/\beta\text{-actin})]_{\text{untreated}}}$$



Supplementary **Fig. S2**. Evaluation of SAHF. Cells were treated either with imatinib (0.5 $\mu$ M for K562 and 2  $\mu$ M for Kv562 cells), 100  $\mu$ M 4MU, the combination of both, or the combination of both plus 300  $\mu$ g/ml HA for 48 h. The presence of SAHF was evaluated by fluorescence microscopy using DAPI stain (magnification 400X). Arrows indicate nuclei with SAHF, while lines indicate nuclei with DNA fragmentation, which are characteristic of senescent and apoptotic cells, respectively.