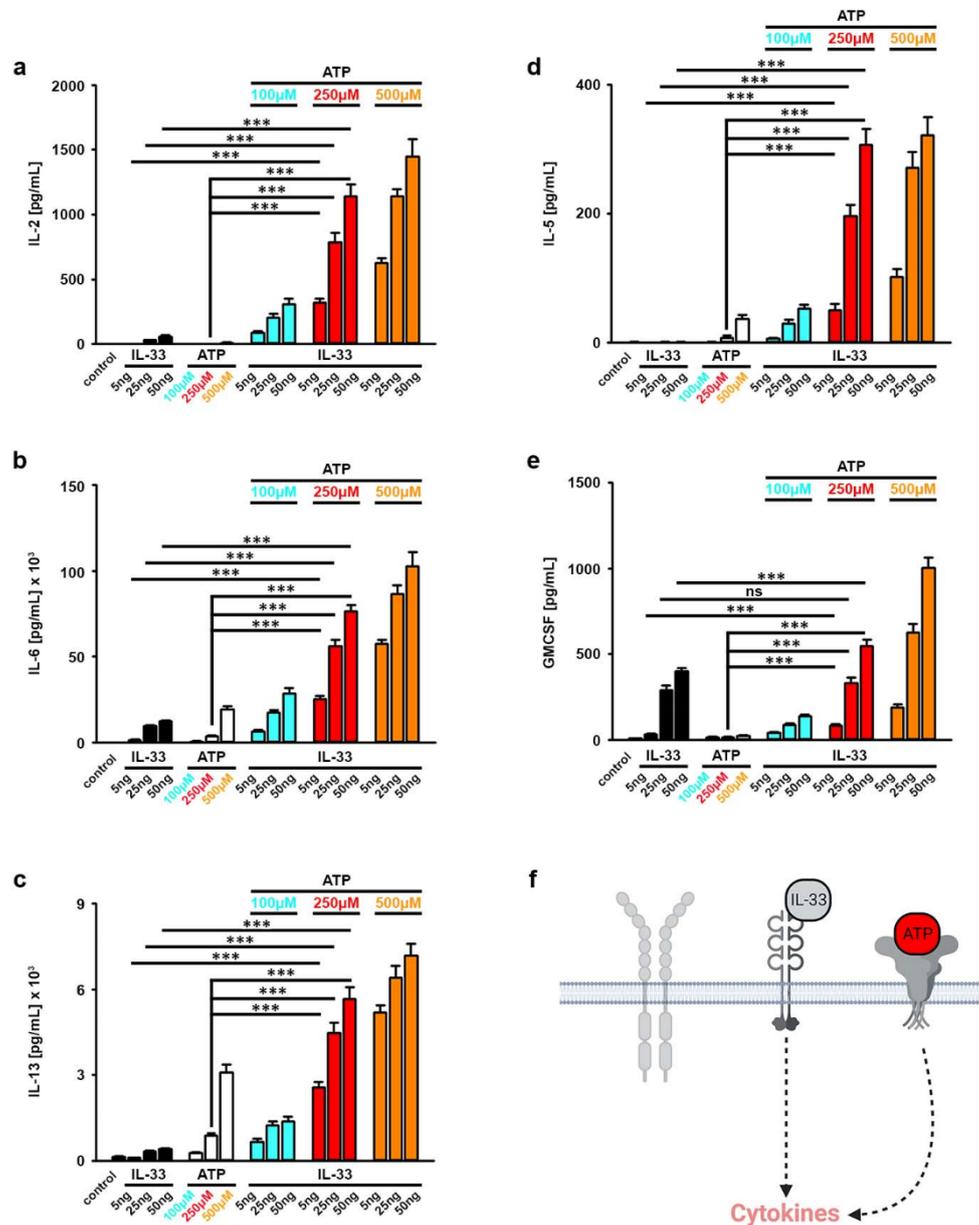
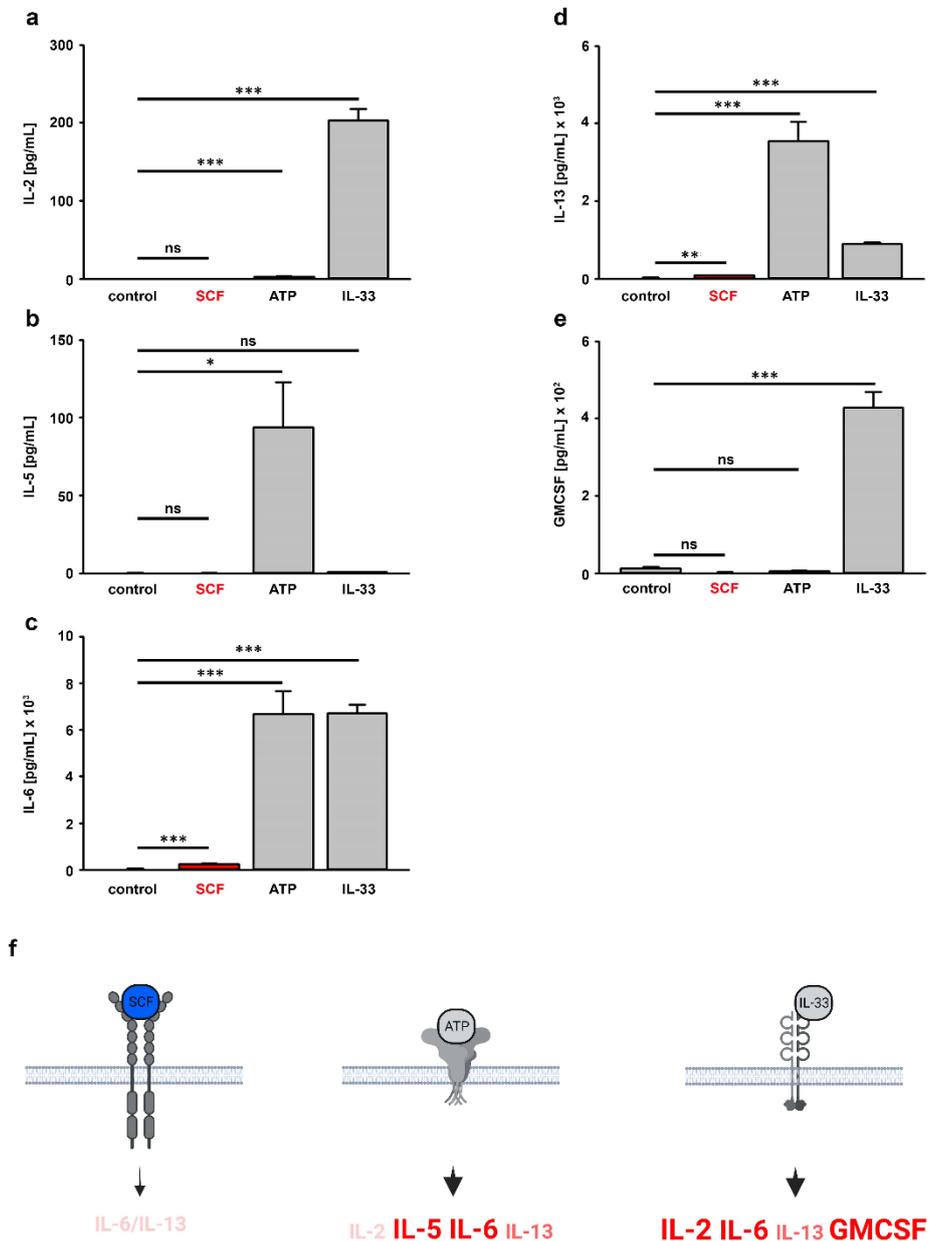


Figure S1



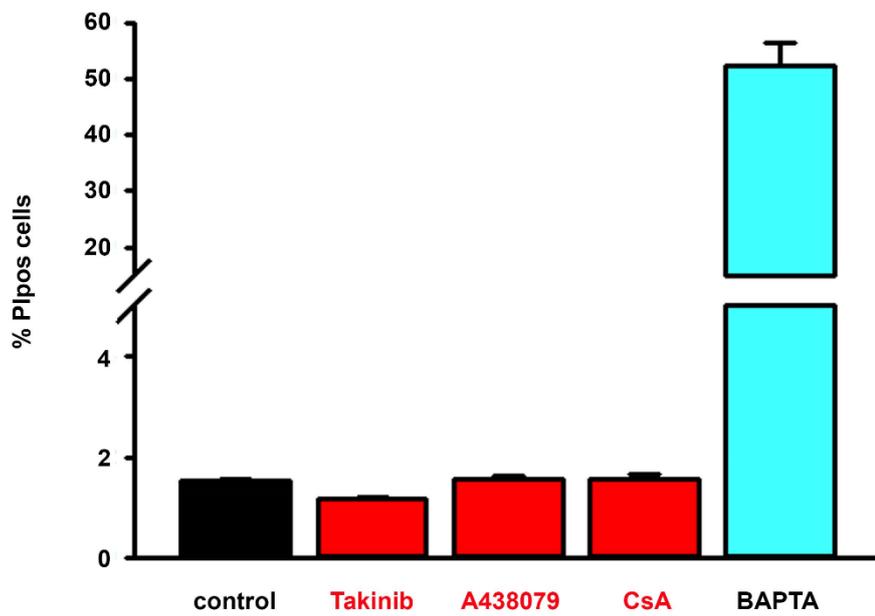
**Supplementary Figure 1. ATP and IL-33 synergistically increase the cytokine production in MCs.** (a-e) BMMCs cells were either single stimulated with ATP (as indicated) or IL-33 (as indicated) or both in combination. After 24h, supernatants were collected and analyzed for IL-2 (a), IL-6 (b), IL-13 (c), IL-5 (d) or GM-CSF (e). (f) Shown is the cartoon of the co-stimulation of BMMCs with ATP and IL-33 (created with biorender). Shown is the SEM of n=6 biological replicates for all cytokines. Shown is the SEM of n=6 biological replicates for IL-2, IL-6 and IL-13 and n=3 biological replicates for IL-5 and GM-CSF.

Figure S2



**Supplementary Figure 2. The SCF-, ATP- and IL-33-induced responses in MCs.** (a-e) BMMCs cells were single stimulated with SCF (50ng/ml), ATP (250 $\mu$ M) or IL-33 (25ng/ml). After 24h, supernatants were collected and analyzed for IL-2 (a), IL-5 (b), IL-6 (c), IL-13 (d) or GM-CSF (e). (f) Shown are the cartoons of the single stimulations of BMMCs with SCF, ATP or IL-33 and the resulting cytokine productions (created with biorender). (a-e) Shown is the SEM of n=3 biological replicates for all cytokines.

Figure S3



**Supplementary Figure 3. The used inhibitors did not induce cell death.** BMMCs were treated with Takinib 10 $\mu$ M, A438079 (50 $\mu$ M), CsA (2 $\mu$ g/ml) or with BAPTA (50 $\mu$ M) (as a positive control) which induces cell death in such high concentrations. After 24h cells were harvested, treated with propidium iodide, and analyzed by flow cytometry. Shown is the SEM of n=3 biological replicates.