Supplementary materials

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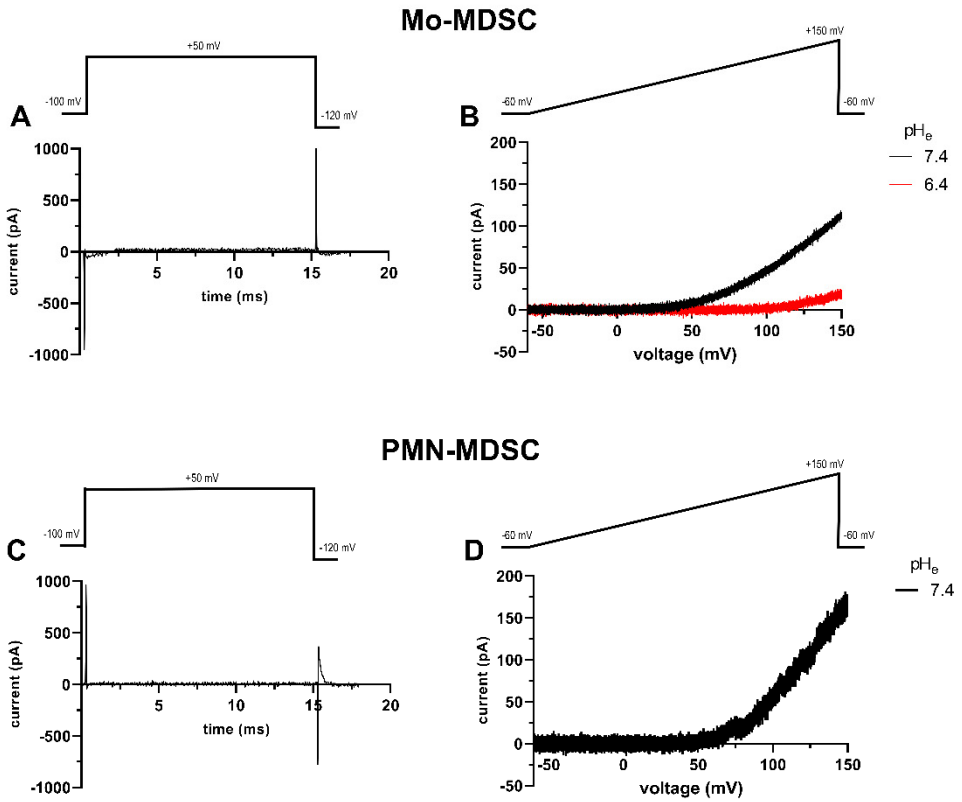
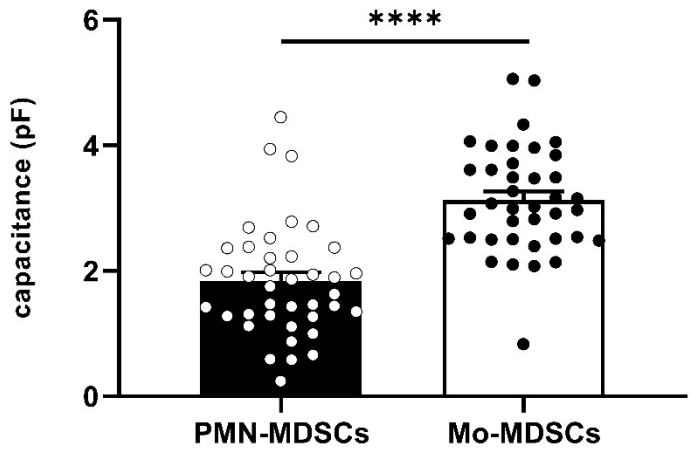
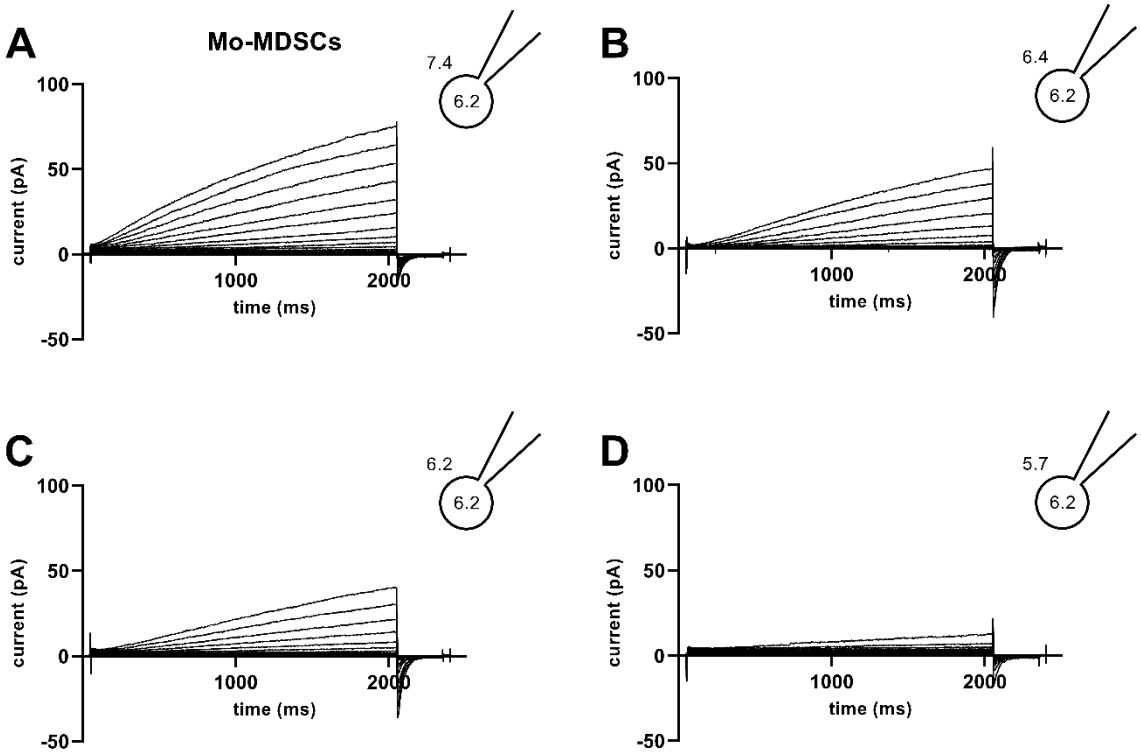


Supplementary Figure S1. Ion currents in physiological salt solutions. Whole-cell patch-clamp records were obtained in Na^+-based extracellular and K^+-based pipette filling solutions (see Materials and Methods for details). The pH of the pipette filling solution was pH_i=7.2 and that of the extracellular solution was pH_e=7.4 (black traces) or pH_e=6.4 (red trace). Solution exchange was performed as described in the Materials and Methods. Voltages steps (A and C) from the holding potential of -100 mV to +50 mV or voltage ramps (B and D) from the holding potential of -60 mV to +150 mV (ramp duration: 2s) were applied to elicit currents (see insets). Currents were recorded every 15 s. current traces are shown for Mo-MDSCs (A-B), and for PMN-MDSCs (C-D).



Supplementary Figure S2. Whole-cell capacitance of MDSCs. The cell membrane capacitance values were obtained from the readings of the whole-cell capacitance compensation circuit of the patch-clamp amplifier. The capacitances were determined after breaking into the whole-cell configuration. Each point represents an individual cell, bar heights represent mean, error bars are ±SEM. **** means $p < 0.0001$.



Supplementary Figure S3. Families of H^+ currents in a Mo-MDSC. Whole-cell H^+ currents were recorded in a murine Mo-MDSC freshly isolated from an LLC tumor. 2-s-long depolarizing pulses were applied from a holding potential of -80 mV to +100 mV in 10 mV increments. While the internal solution was maintained constantly in the micropipette at pH_i = 6.2, the cell was locally perfused at different pH_e values (7.4 (A), 6.4 (B), 6.2 (C) and 5.7 (D)). Representative of 5 (A), 5 (B), 4 (C) and 5 (D) similar families of currents. Every trace has been filtered with a 25-point boxcar filter.