

Supporting Information

Presence of Electrolyte Promotes Wetting and Hydrophobic Gating in Nanopores with Residual Surface Charges

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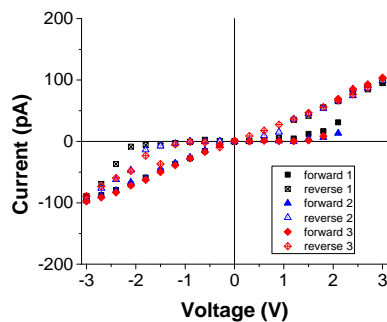
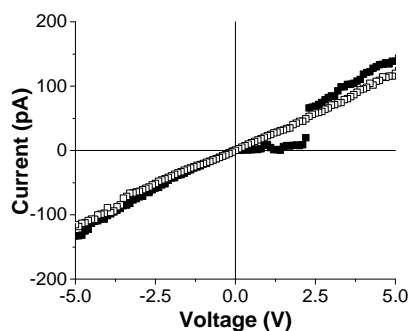
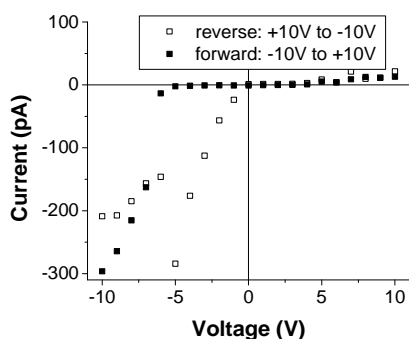
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1. A single nanopore modified with propylamine.

10 mM KCl



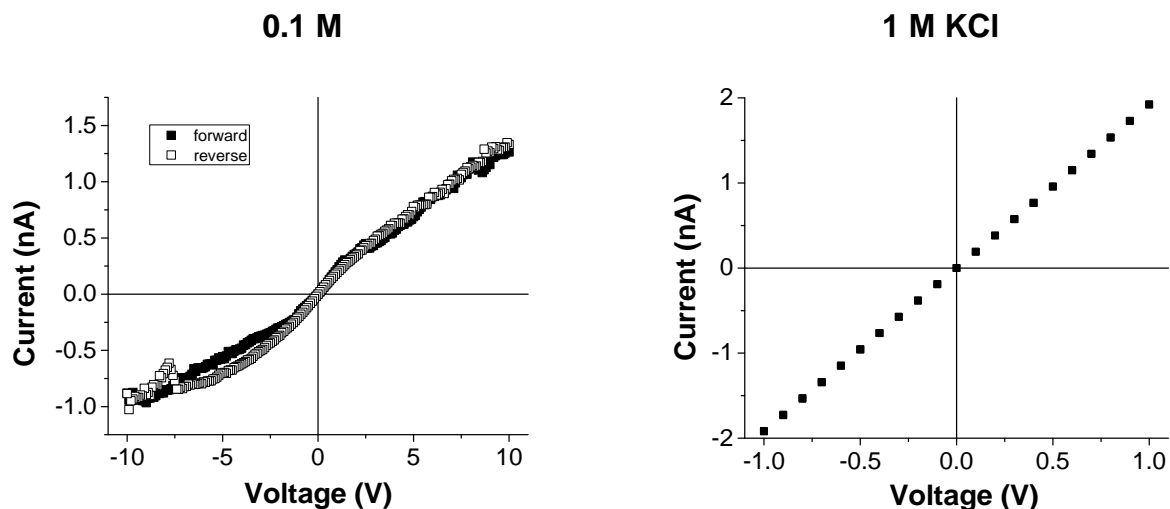
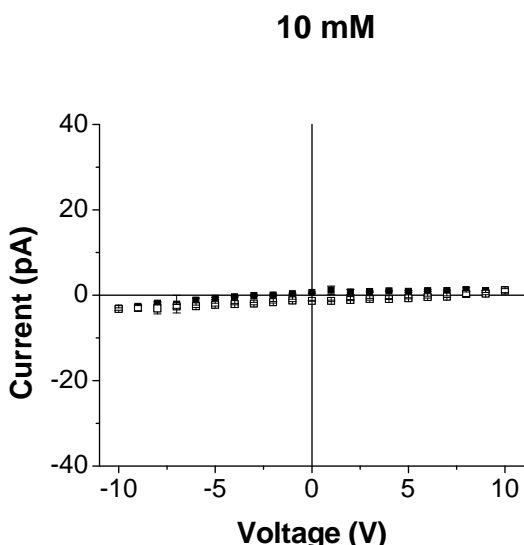


Figure S1. Current-voltage curves through a single 5 nm in diameter conically shaped nanopore modified with propylamine. This is a different pore than the structure shown in Figure 1c in the main manuscript. Recordings were performed in 10 mM, 0.1 M and 1 M KCl. Filled and empty squares indicate forward and reverse bias, respectively.

2. A single nanopore modified with hexylamine.



100 mM

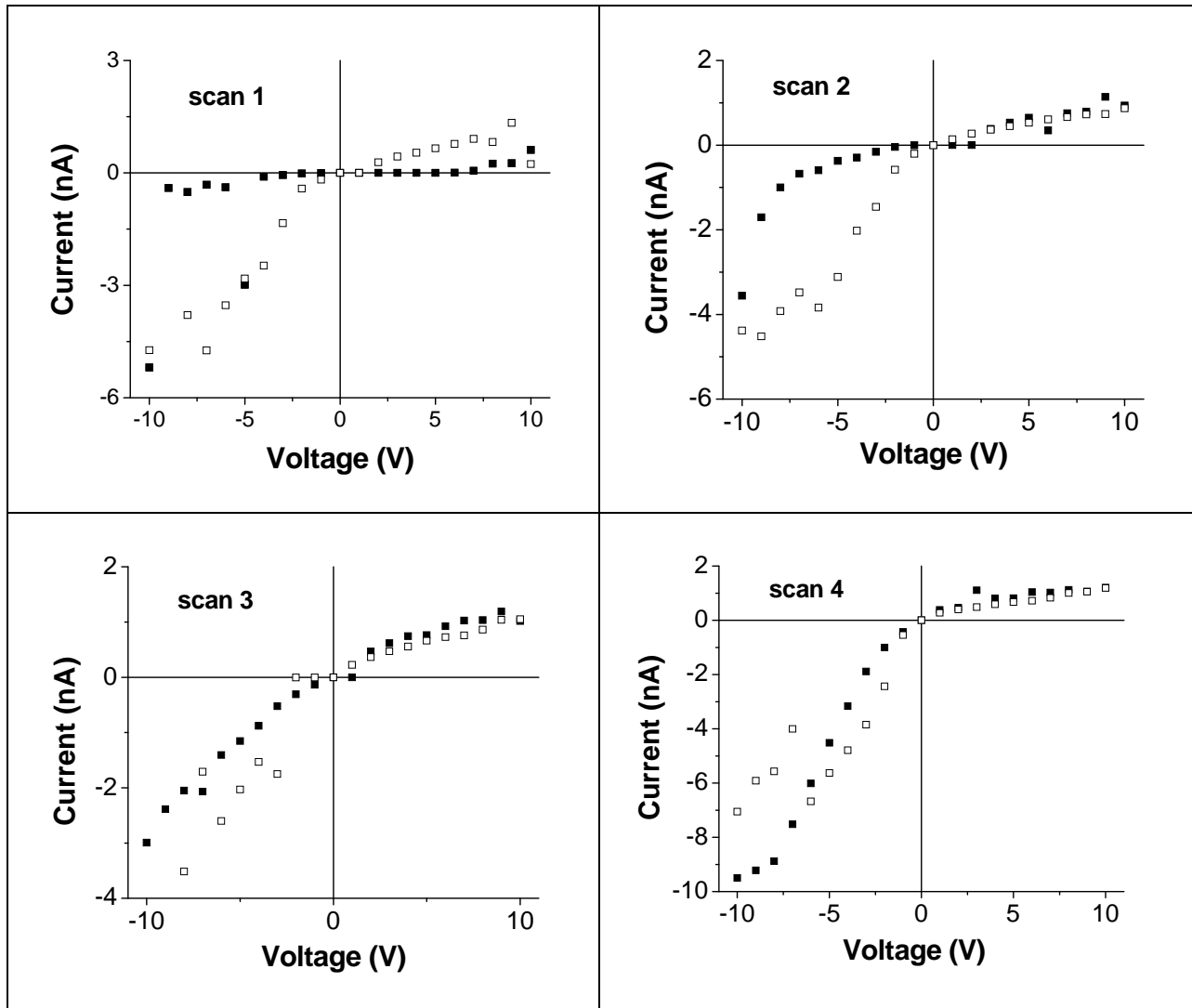


Figure S2. Current-voltage curves through a single 11 nm in diameter conically shaped nanopore modified with hexylamine recorded in 10 mM and 0.1 M KCl. Filled and empty squares indicate forward and reverse bias, respectively. Four individual scans are shown for 0.1 M KCl; the pore conducted current for all voltages in the fourth scan.