

Supplementary Materials:

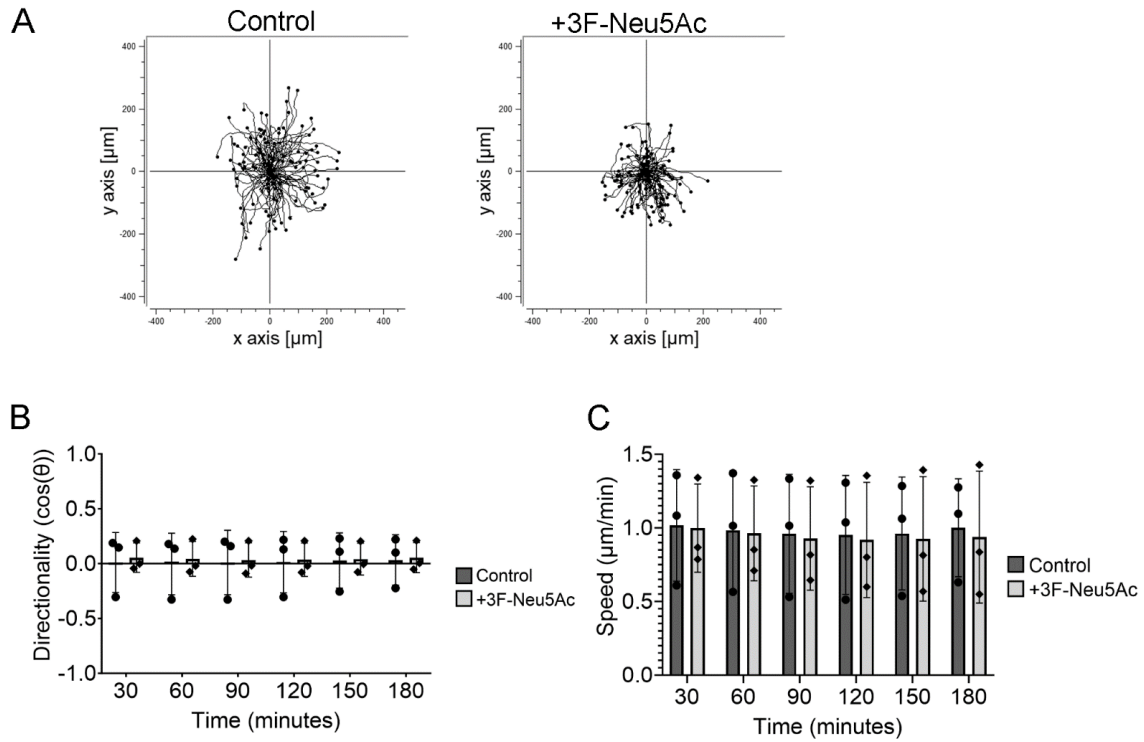
This manuscript contains four supplementary videos and one supplementary figure:

Supplementary Video S1: hTCEpi cells under 100mV/mm with and without 3F-Neu5Ac (100 μ M).

Supplementary Video S2: hTCEpi cells under 30mV/mm with and without 3F-Neu5Ac (100 μ M).

Supplementary Video S3: hTCEpi cells under 100mV/mm with and without Ac₄ManNAz (100 μ M).

Supplementary Video S4: hTCEpi cells under 100mV/mm with and without Kifunensine (20 μ g/ml).



Supplementary Figure S1. 3F-Neu5Ac does not impact cell migration in the absence of an electric field. hTCEpi cells were seeded into electrotactic chambers and pretreated with 100 μ M of 3F-Neu5Ac for 48 hours before electrical stimulation. (A) Representative trajectory plots of hTCEpi cells treated with or without 3F-Neu5Ac. (B) Quantification of directionality and speed (n=3). (C) Quantification of speed (n=3).