

Supplementary Figures

Figure S1 - SJD.1 cells growth curve in DMEM normal medium counted every other day over 15 days using an haematocytometer under normal conditions (8 % CO₂, and 28 °C).

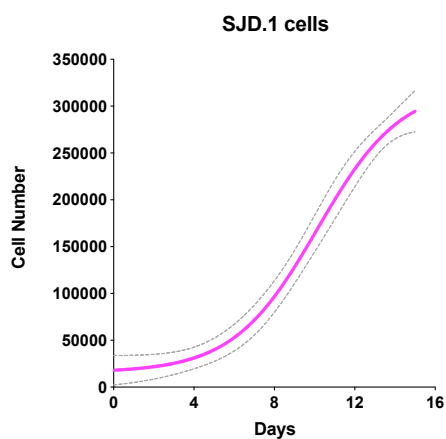


Figure S2 - Immunofluorescent photos of SJD.1 cells in normal conditions. SJD.1 cells were labelled with a monoclonal anti- α -tubulin antibody detected with a IgG Secondary antibody (α -tubulin in green (b)), stained with Texas Red®-X Phalloidin (actin in red (c)) and DAPI (nuclei in blue (a)) and all images merged (d). Images were obtained Leica DM IL microscope coupled to a Visicam PRO 20C digital camera and photographs were analyzed using ImageJ software for image overlay. Scale bars indicate 100 μ m.

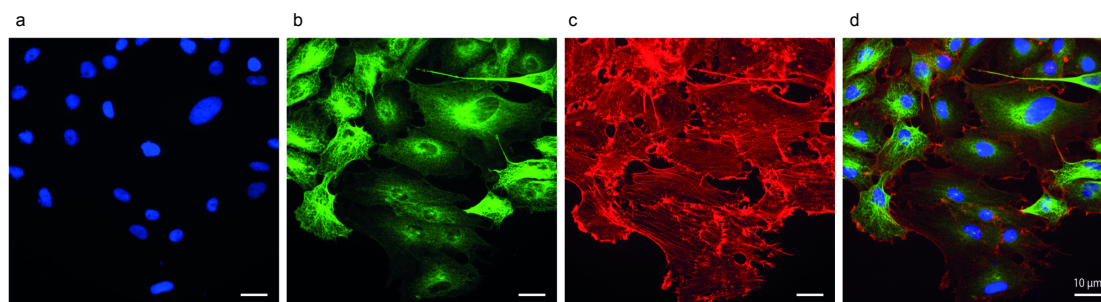


Figure S3 - Images showing the result of the optimized wounding/ scratching protocol. Images of a single 250 μM circular electrode before (confluent SJD.1 cell monolayer (left)) and after (empty electrode (right)) of the optimized current pulse (1200 μA , 40 kHz, 10 s) generated by the ECIS equipment.

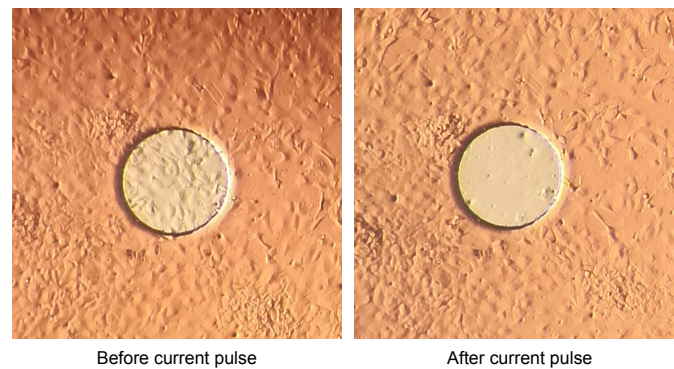


Figure S4 - Schematic representation of the scratch performed in the SJD.1 fibroblast monolayers to achieved multiple scratches that corresponded approximately to a scratch involving 50 % of the cells.

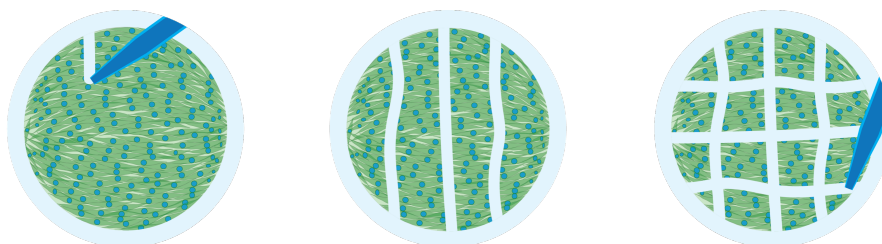


Figure S5 - Schematic representation of an 8W1E devices (IBIDI) used for cell migration ECIS assays with a single 250 μM circular electrode covered in a thin gold film.

