Supplementary material

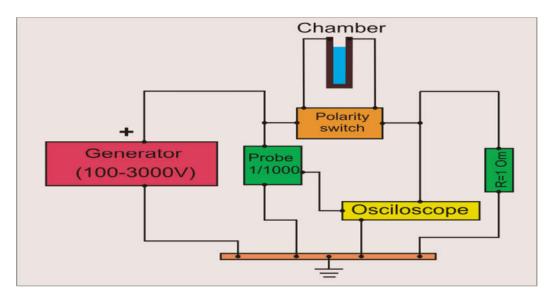
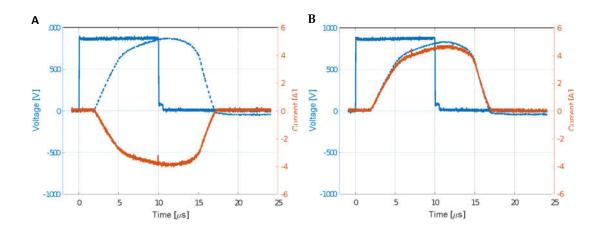
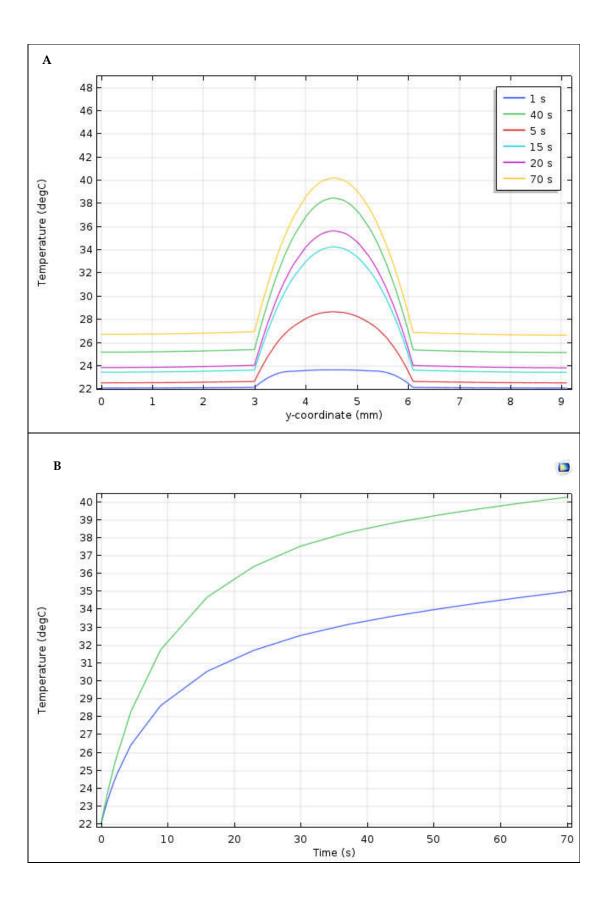


Figure S1. Schematic drawing of the high voltage generator and the electronic circuit





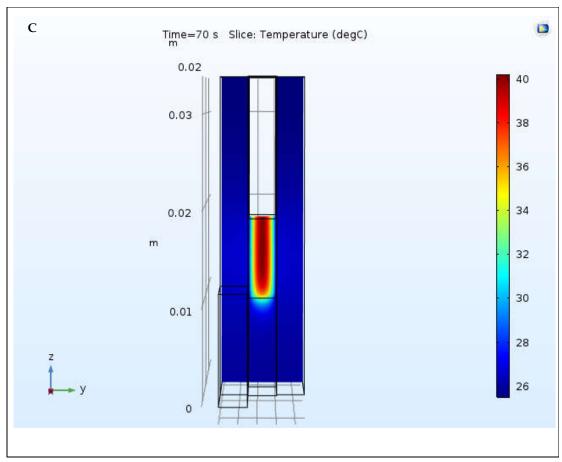


Figure S3. Temperature in the electroporation chamber. Temperature profile at different times during the PEF treatment along the electrodes (A); Maximum temperature () in the electrode sample system, and average temperature () in the electrode sample system (B); Electrode sample system's temperature map after 70 s operation time (C).

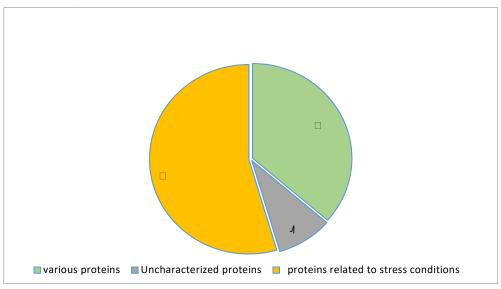


Figure S4. Over-expressed proteins in PEF-treated *P. putida* F1 in BHI, compared to the non-treated sample.