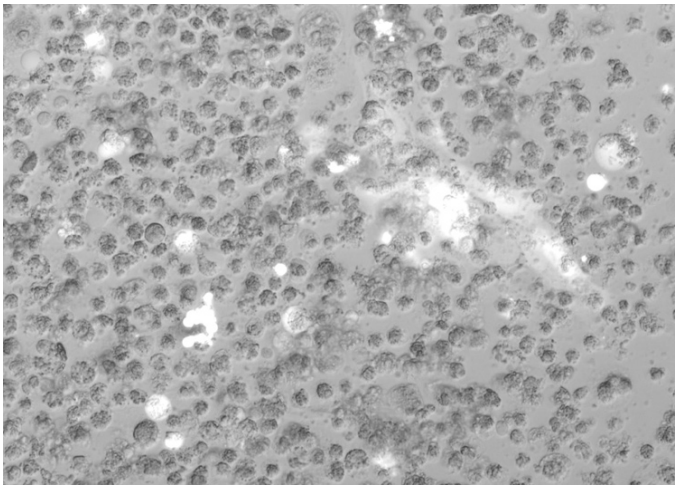
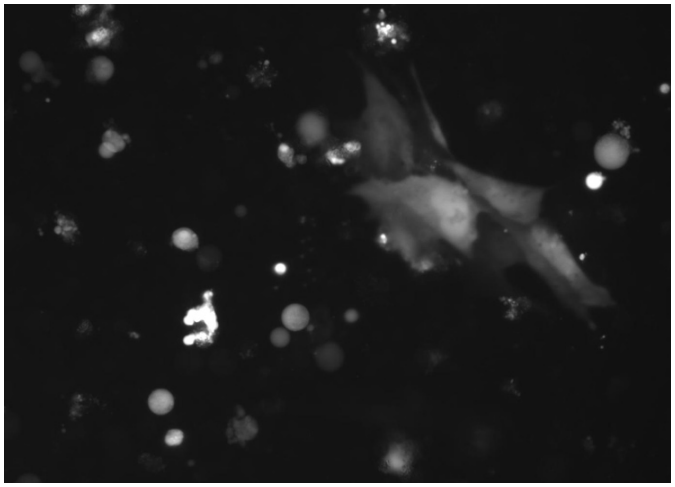
H9 Human Embryonic Stem Cells

A



B



H9 Human Embryonic Stem Cells were transfected using the Neon™ transfection system and 0.5 µg of a plasmid encoding the EGFP. 48 hours post transfection, the cells were analyzed by light **(A)** and fluorescence microscopy **(B)**.

Electroporation parameters

Pulse voltage (v)	Pulse width (ms)	Pulse number	Cell density (cells/ml)	Transfection efficiency	Viability	Tip type
1,100	30	1	1×10^7	29%	99%	10 µl
1,050	30	2	1×10^7	29%	99%	10 µl

Cell information

Cell type/description	H9 Human Embryonic Stem Cells
Characteristics/species	Adherent, adapted for feeder-free growth/human
Tissue origin	Blastocyst
Media	Dulbecco's Modified Eagle's Medium (DMEM)/F12 medium supplemented with 2 mM L-glutamine, 20% Knock-out Serum Replacement, 1X MEM Non-essential Amino Acid solution, 0.1 mM β-mercaptoethanol, and 4 ng/ml bGFG
Morphology	Spherical, colony
Double time	—
Subculturing	Medium renewal: daily after first 48 hr. Passage 1:3–1:6
Culture condition	Temperature: 37°C; atmosphere: air, 95%; carbon dioxide (CO_2), 5%