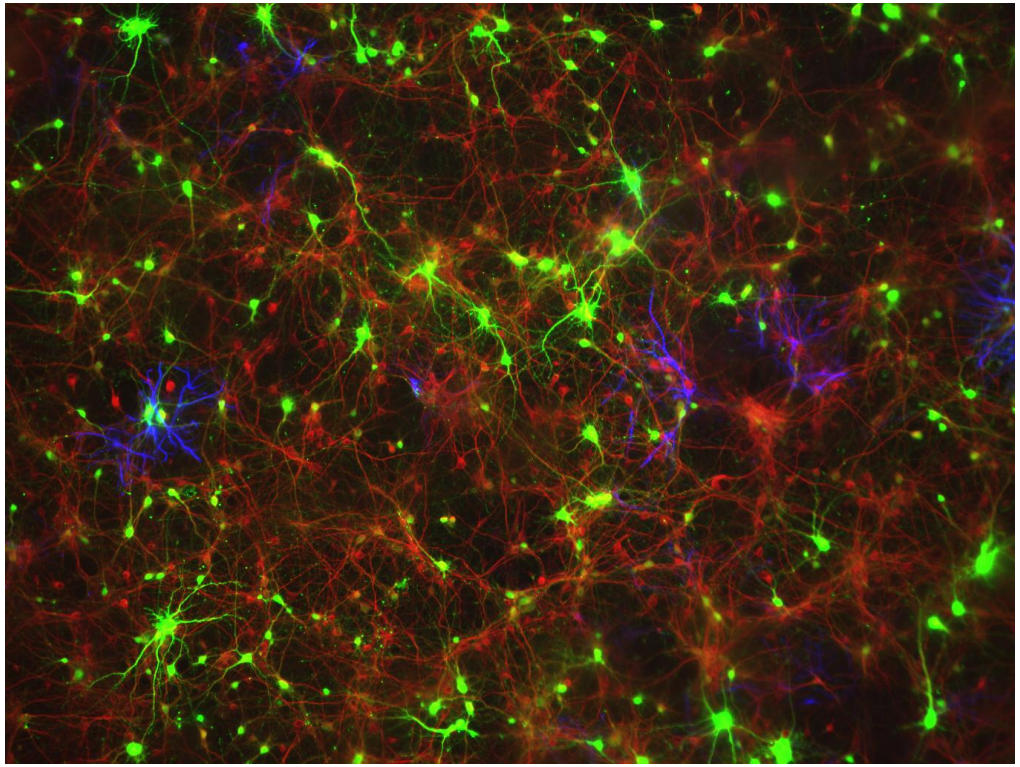
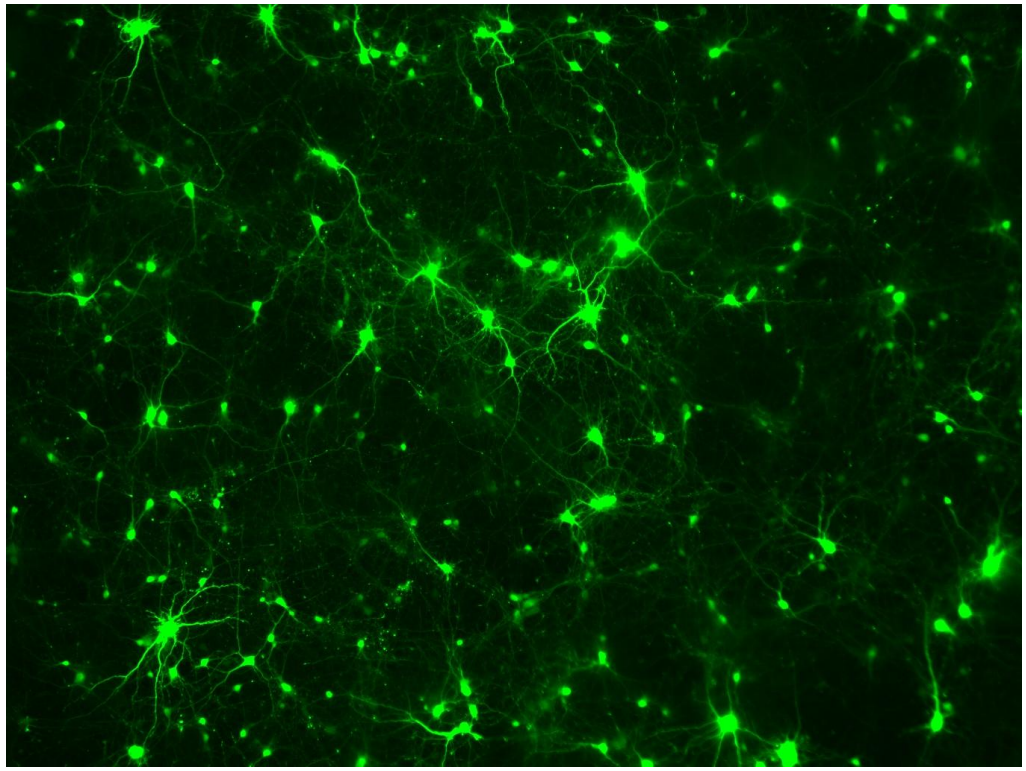
Primary Mouse Cerebral Cortex Neurons



V: 80%

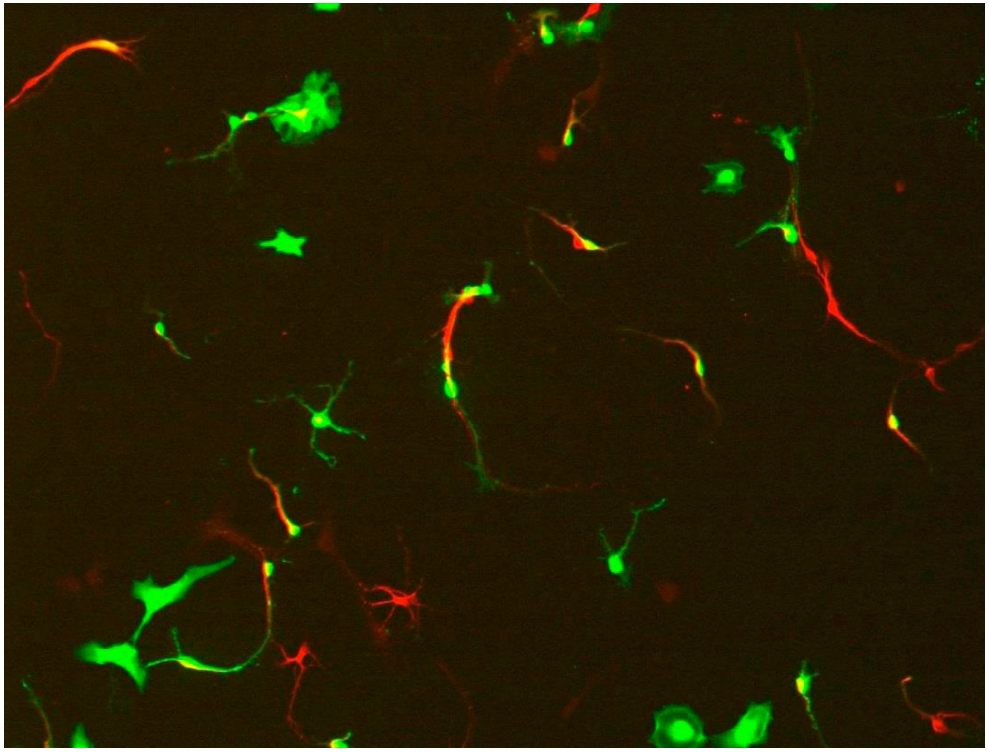


TE: 70%

V: Viability TE: Transfection Efficiency

Pictures: 9 days after electroporation
Red: MAP2 Blue: GFAP Green: GFP
The cells were from Embryonic Day 14 Mouse Cerebral Cortex

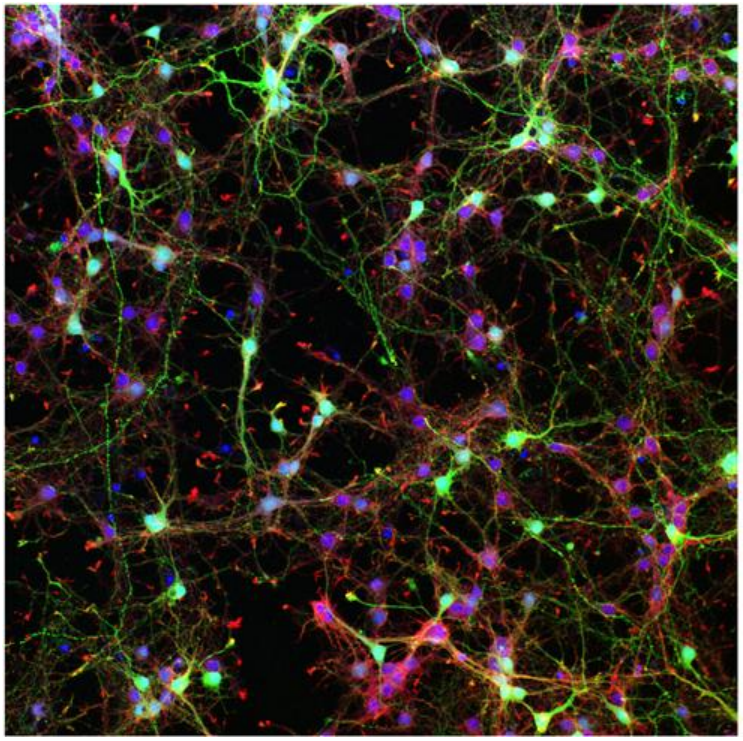
Primary Mouse Hippocampal Neurons



V: Viability TE: Transfection Efficiency

Pictures: 3 days after electroporation
Red: MAP2 Green: GFP

Primary Mouse Neural Progenitor Cells

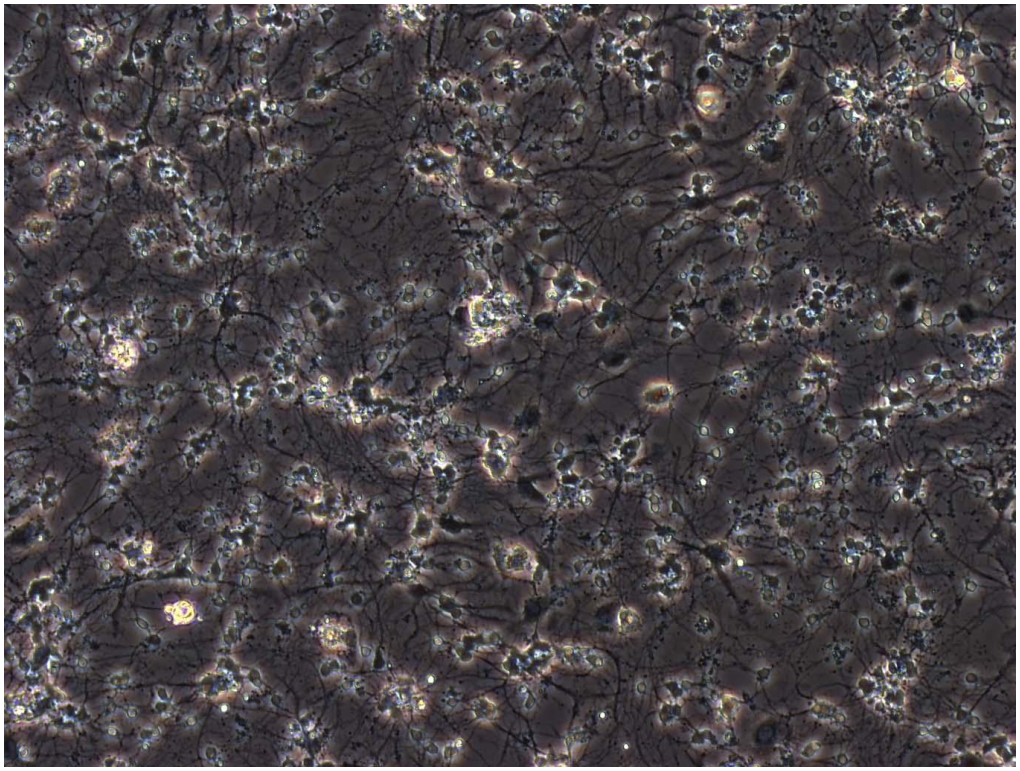


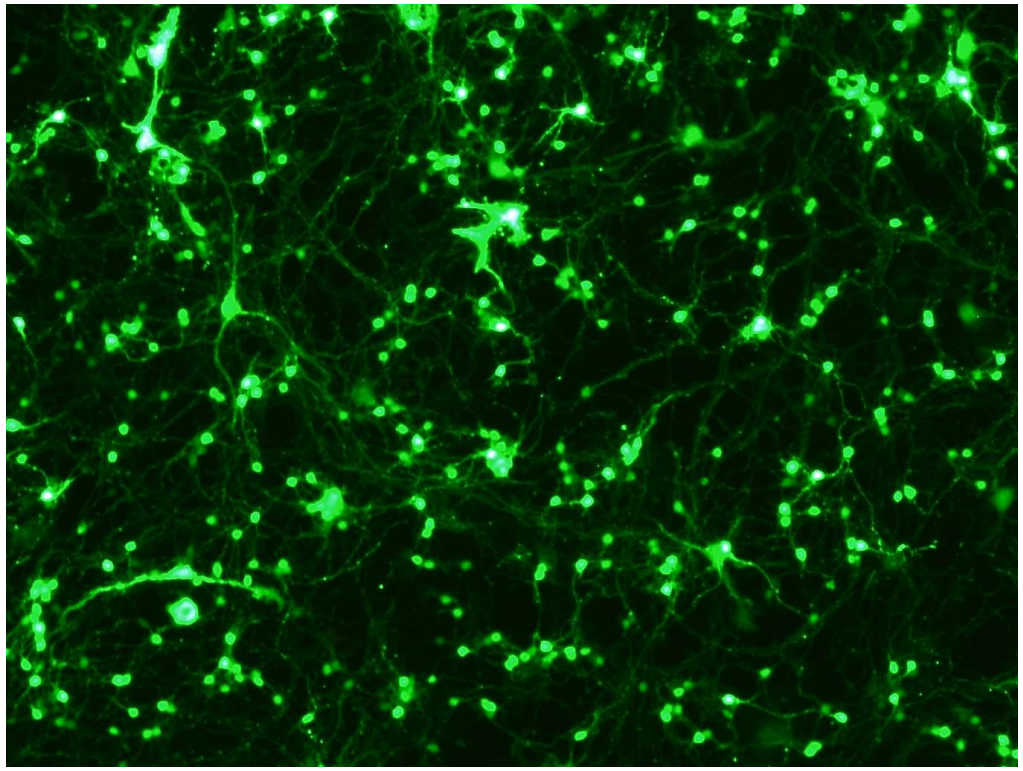
V: 80% TE: 60%

V: Viability TE: Transfection Efficiency

Pictures: 7 days after electroporation
Red: Phalloidin Blue: DAPI Green: GFP

Primary Mouse Cerebellar Granule Neurons

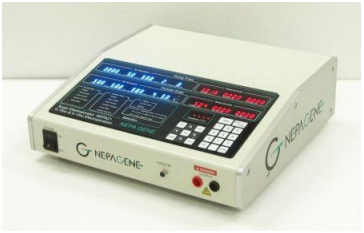




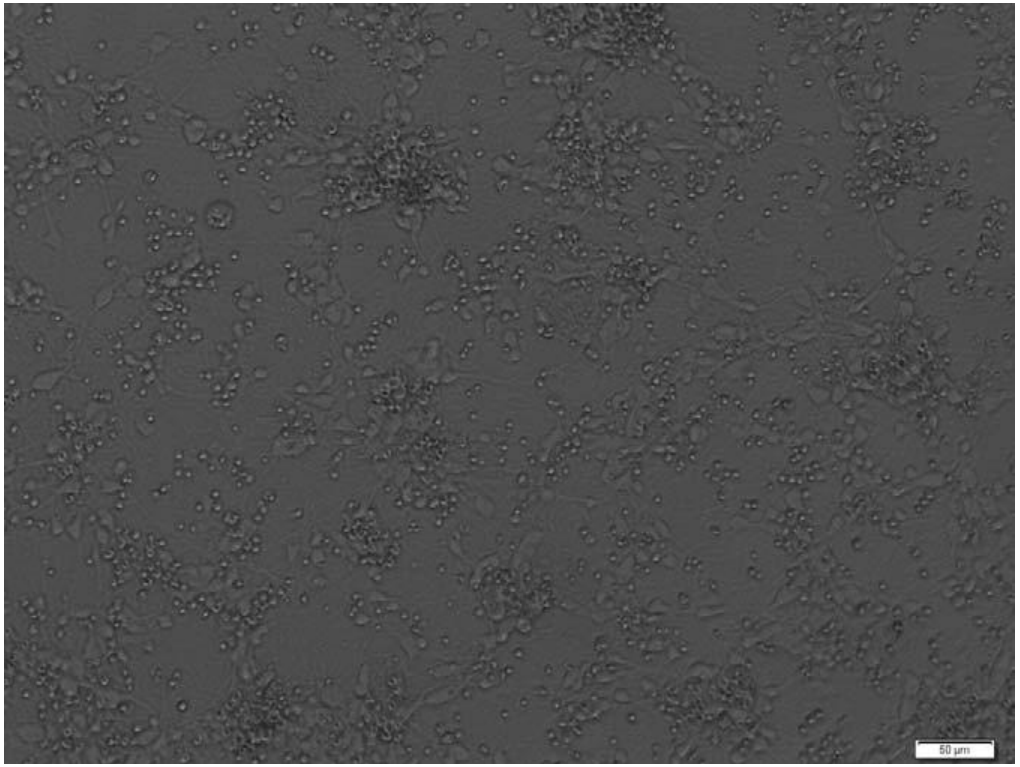
TE: 65%

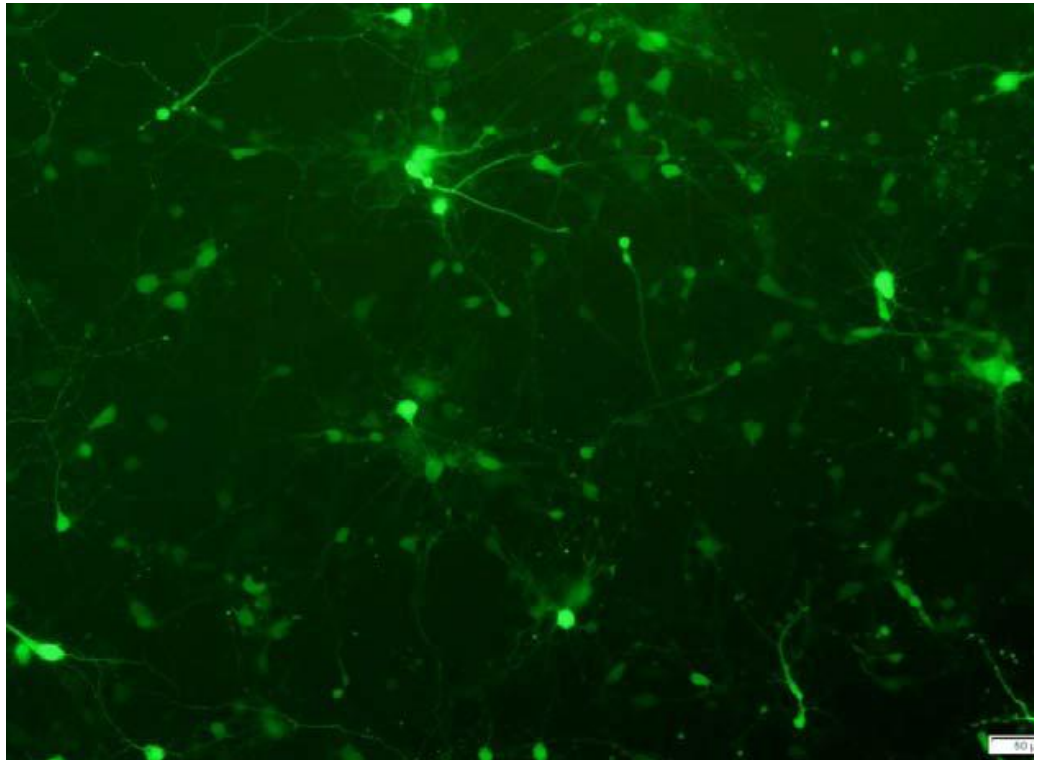
V: Viability TE: Transfection Efficiency

Nucleofector (Lonza amaxa) result: Transfection Efficiency 24%



Primary Rat Cerebral Cortex Neurons





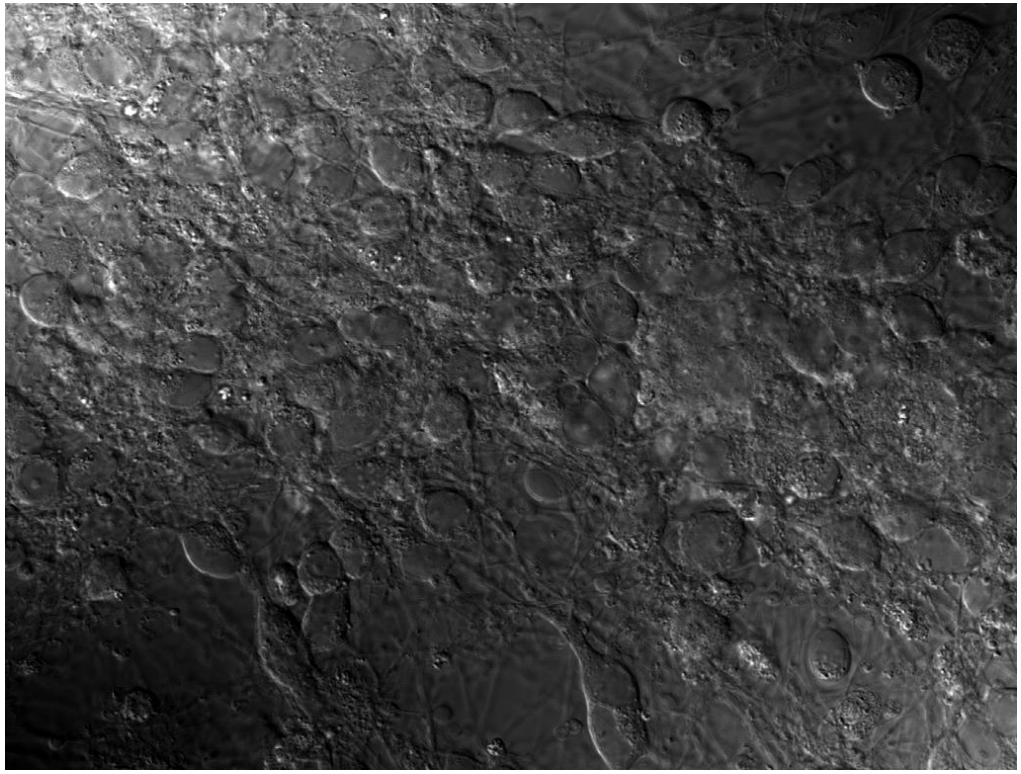
V: 70%

TE: 75%

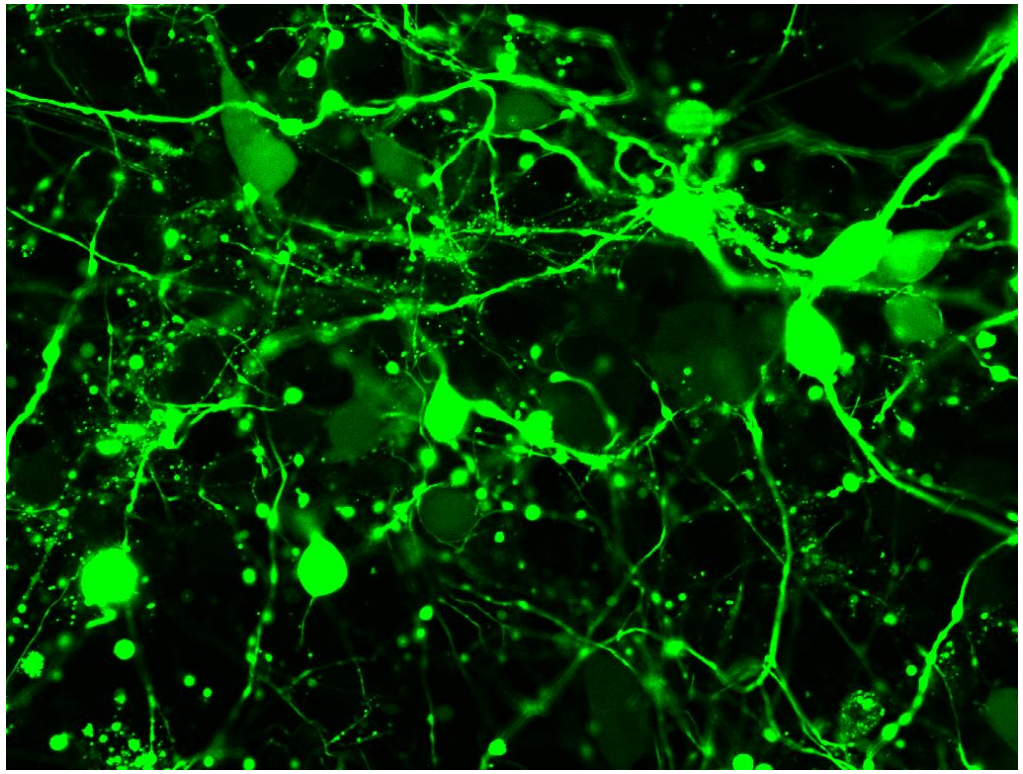
V: Viability TE: Transfection Efficiency

The cells were from Embryonic Day 16 Rat Cerebral Cortex.
Pictures: 5 days after electroporation

Primary Rat Bulbar Neurons



V: 80%

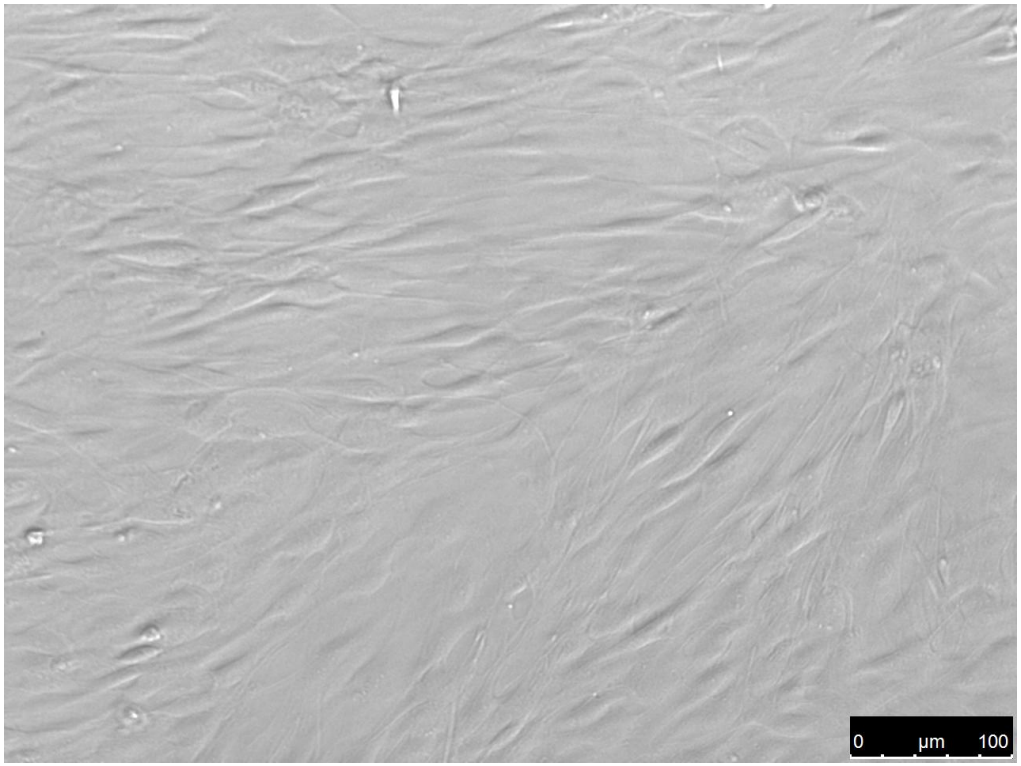


TE: 75%

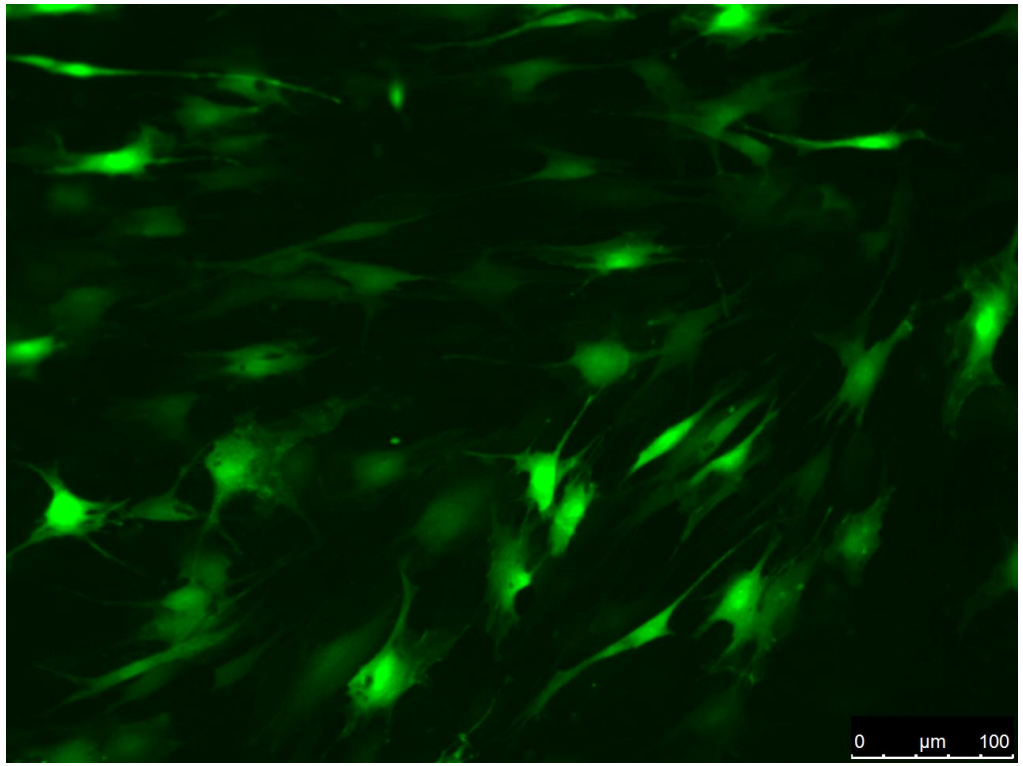
V: Viability TE: Transfection Efficiency

7 days after electroporation / The cells were from Embryonic Day 15 Rat Bulbar Neurons

Primary Rat Schwann cells



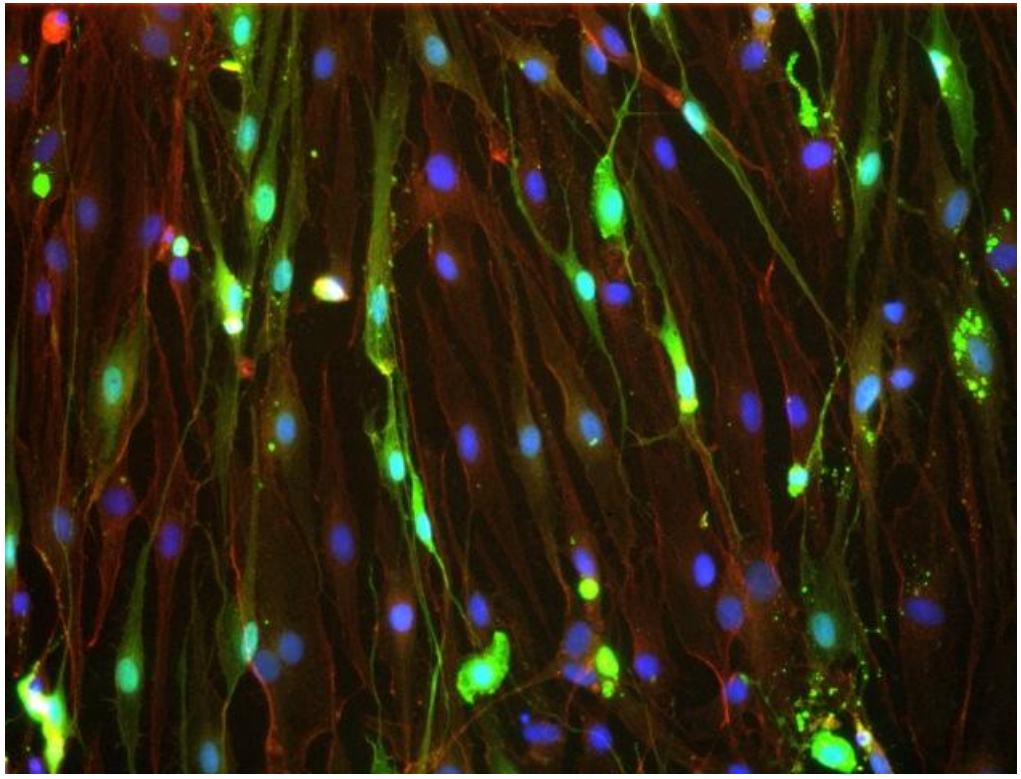
V: 90%

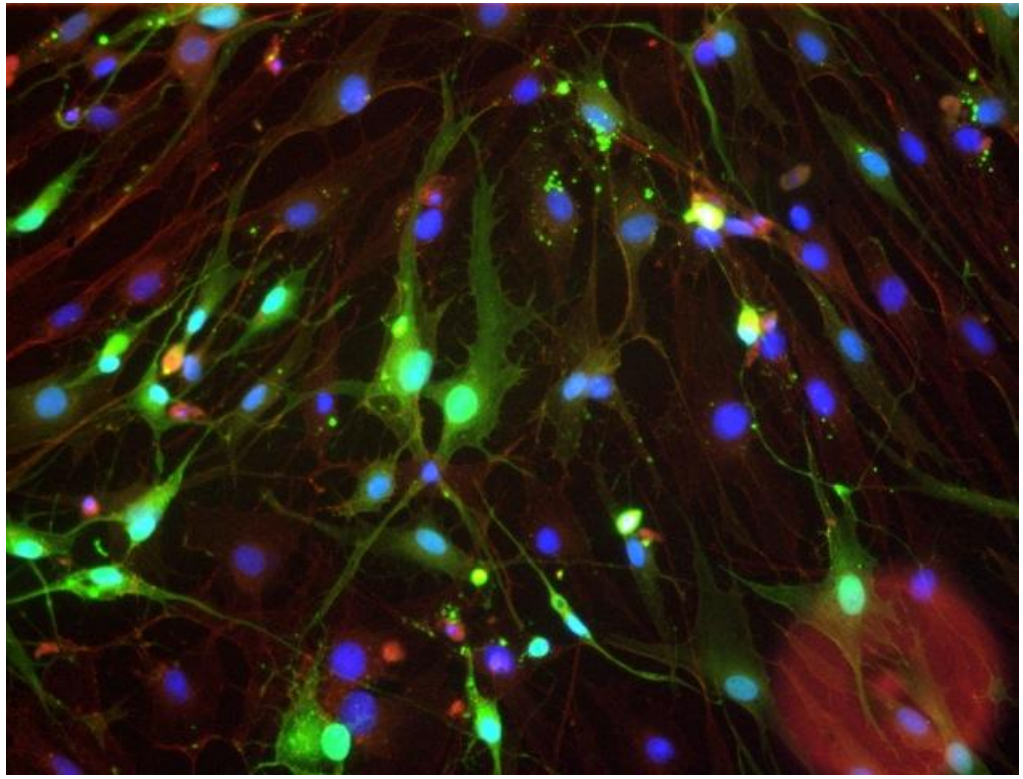


TE: 80%

V: Viability TE: Transfection Efficiency

Primary Rat Schwann cells





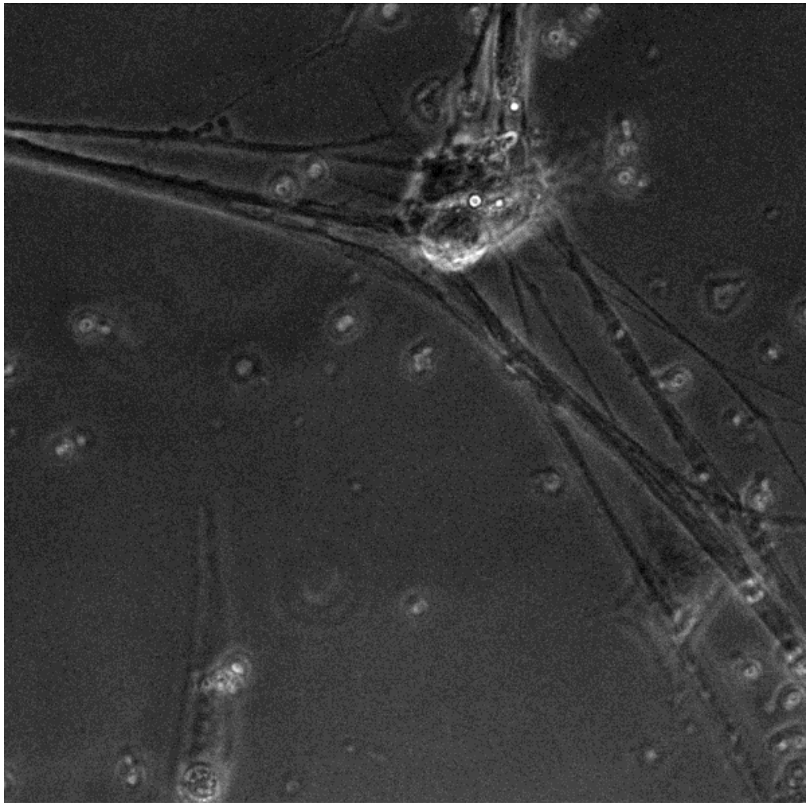
V: 90%

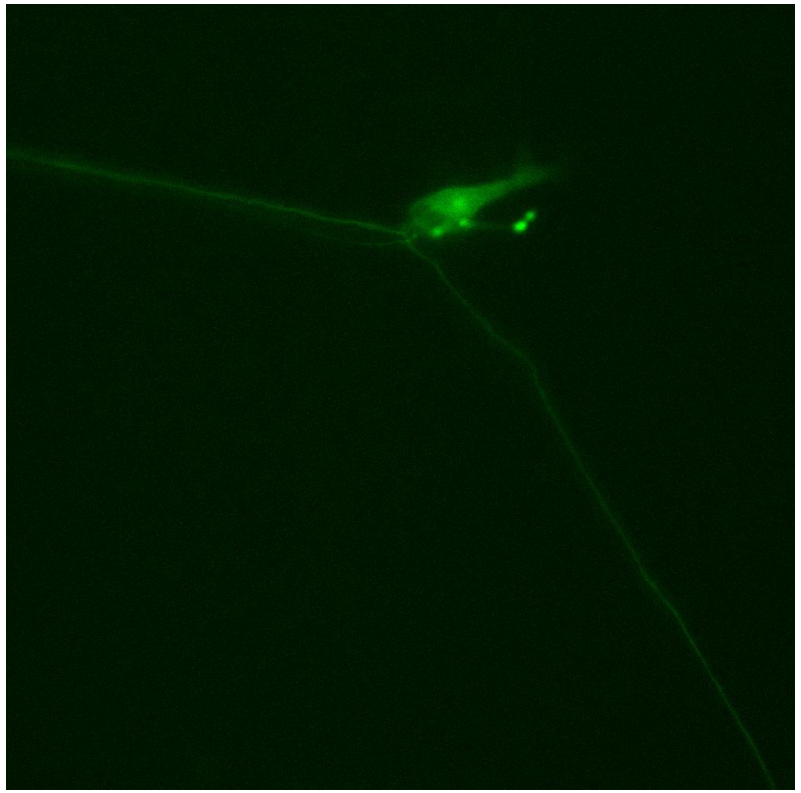
TE: 60%

V: Viability TE: Transfection Efficiency

Pictures: 48 hours after electroporation

Primary Chick Dorsal Root Ganglia



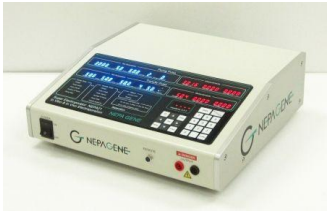


V: 90%

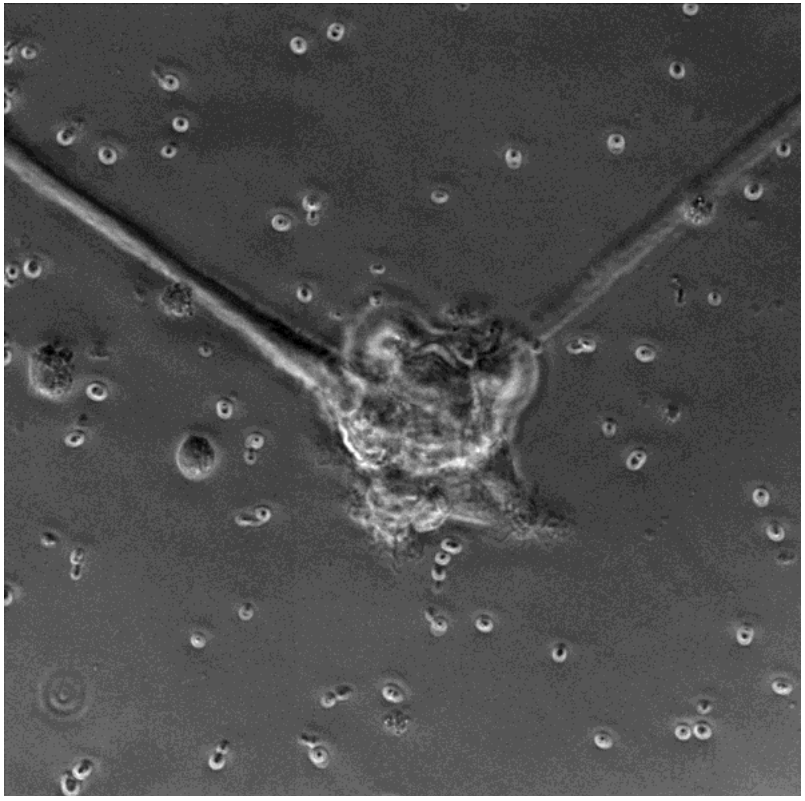
TE: 40%

V: Viability TE: Transfection Efficiency

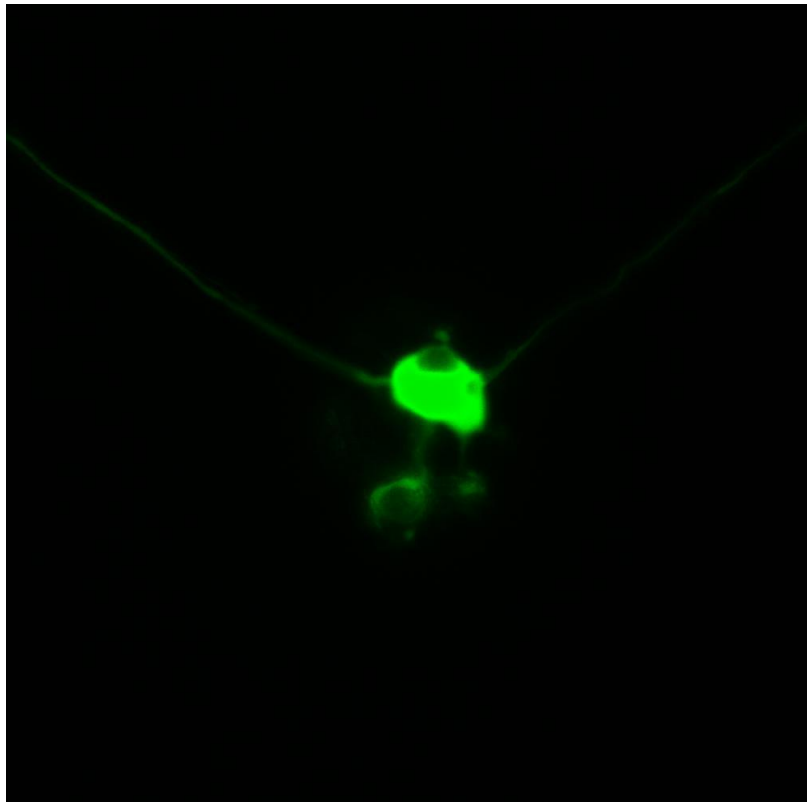
The cells were from day 7-9 chick embryos



Primary Chick Dorsal Root Ganglia



V: 90%

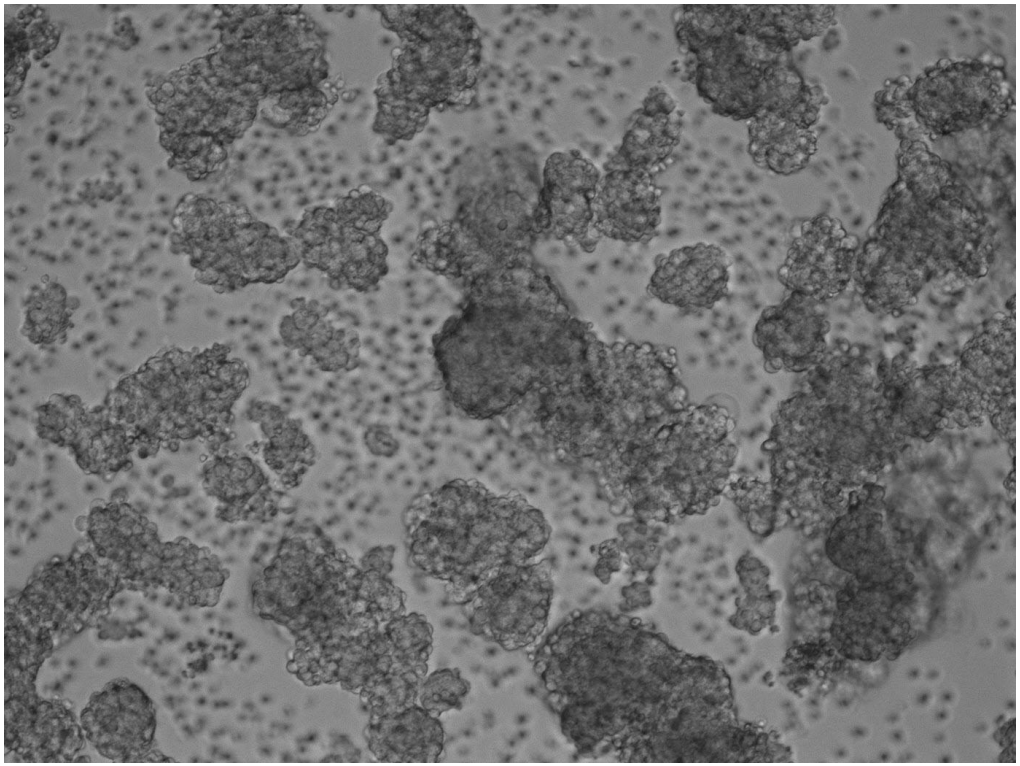


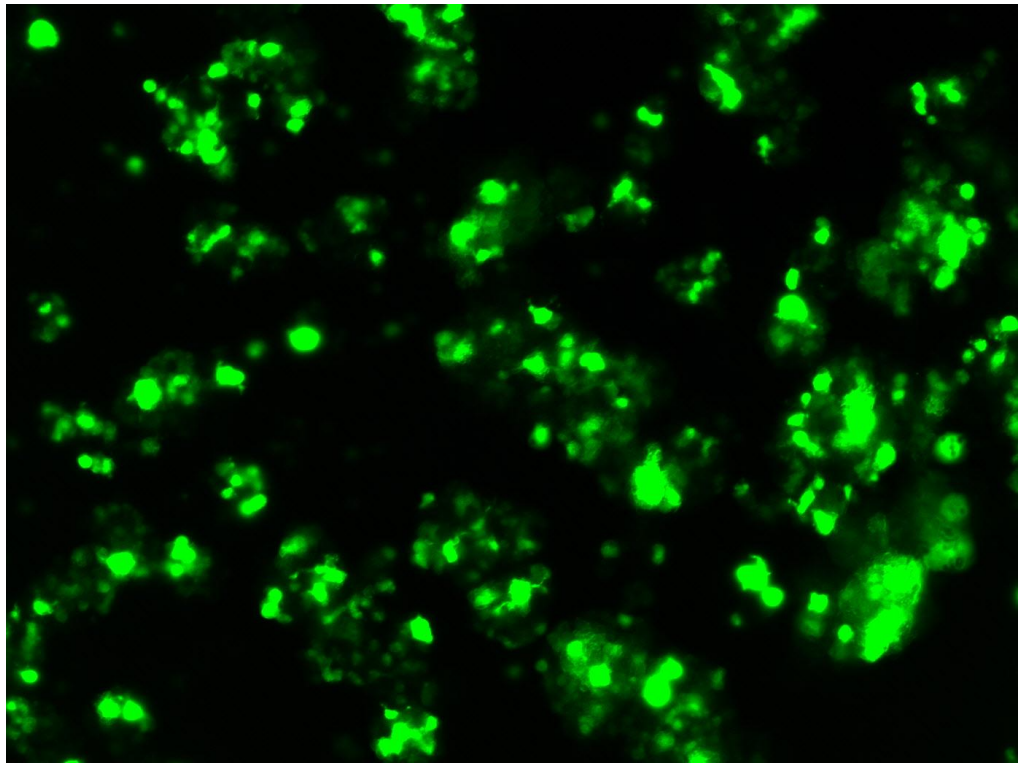
TE: 40%

V: Viability TE: Transfection Efficiency

The cells were from day 7-9 chick embryos

Mouse Neurospheres





V: 90%

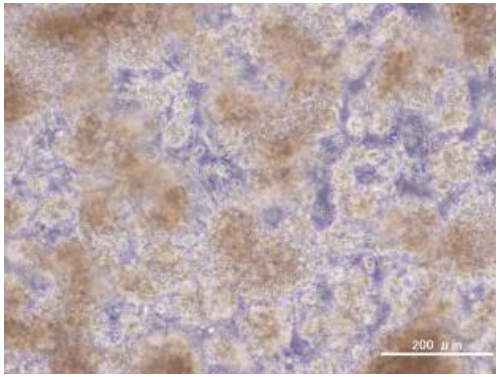
TE: 75%

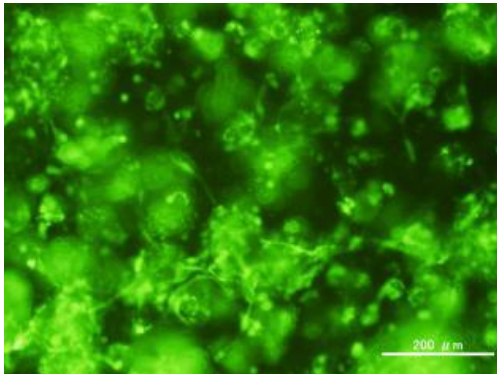
V: Viability TE: Transfection Efficiency

The cells were from E13.5 mouse brain: ganglionic eminence

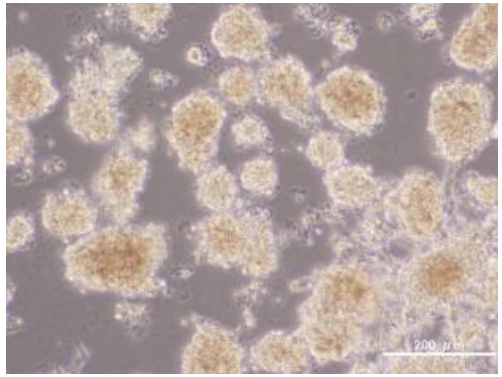
Mouse Neurospheres

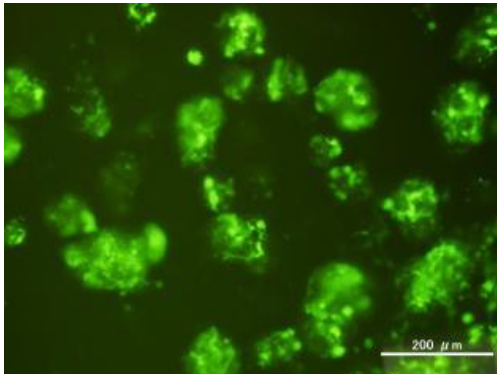
Neural stem cells derived from mouse SVZ



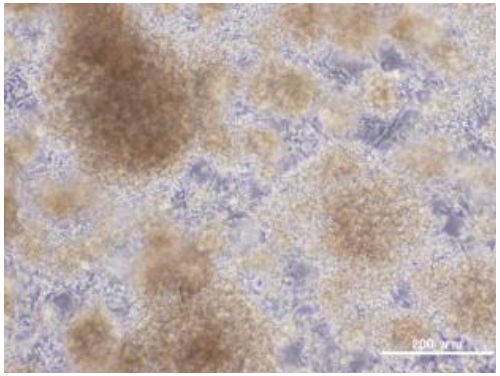


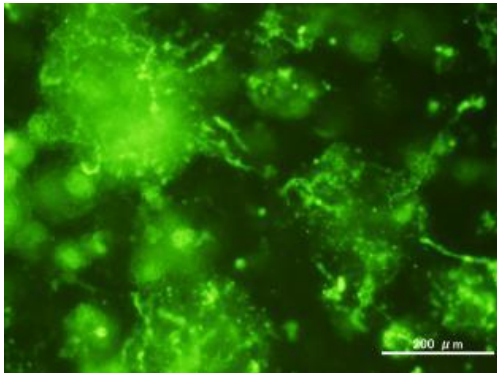
24 hours after electroporation





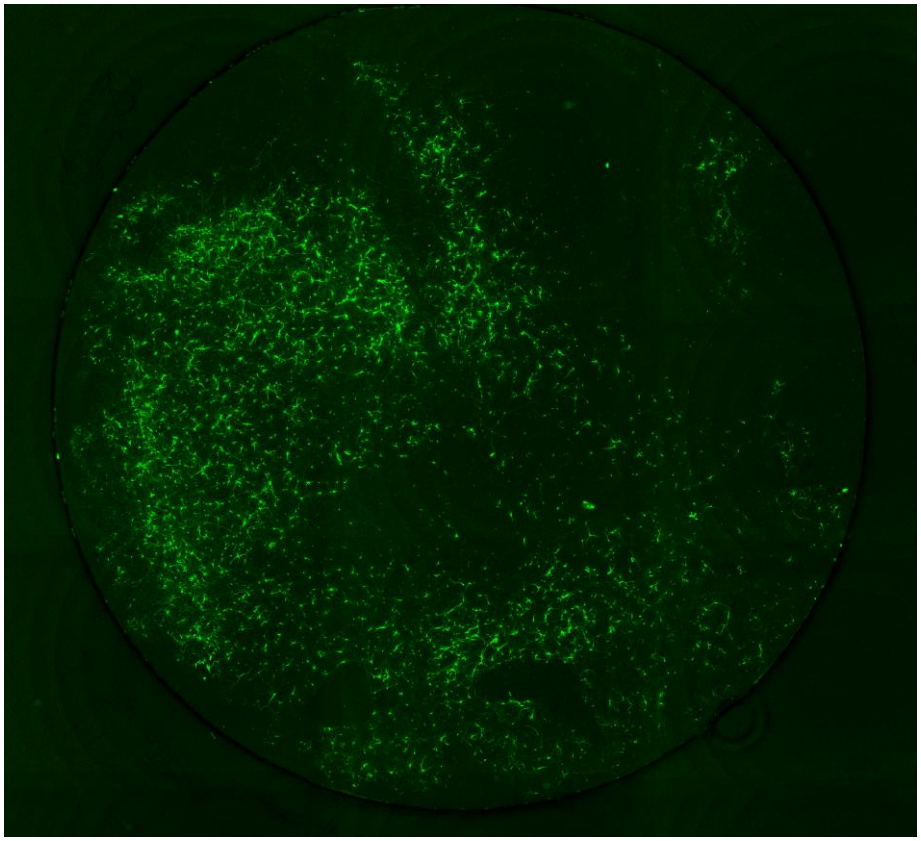
48 hours after electroporation

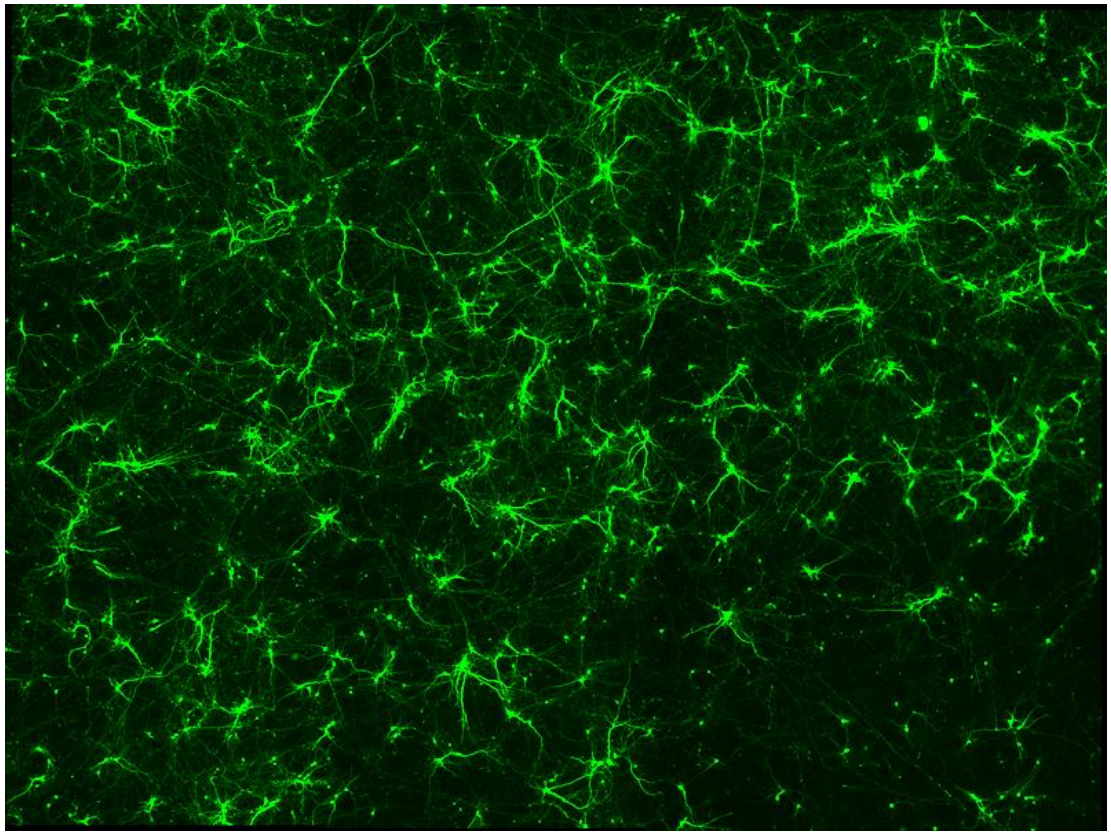




72 hours after electroporation


Primary Mouse Cerebral Cortex Neurons **in Adherence**



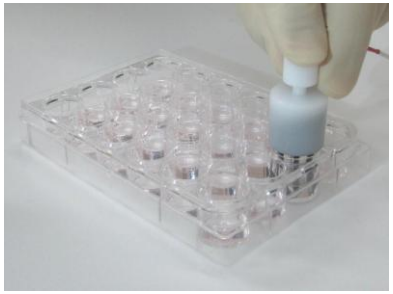


The neurons were prepared from E15 mouse cerebral cortex.

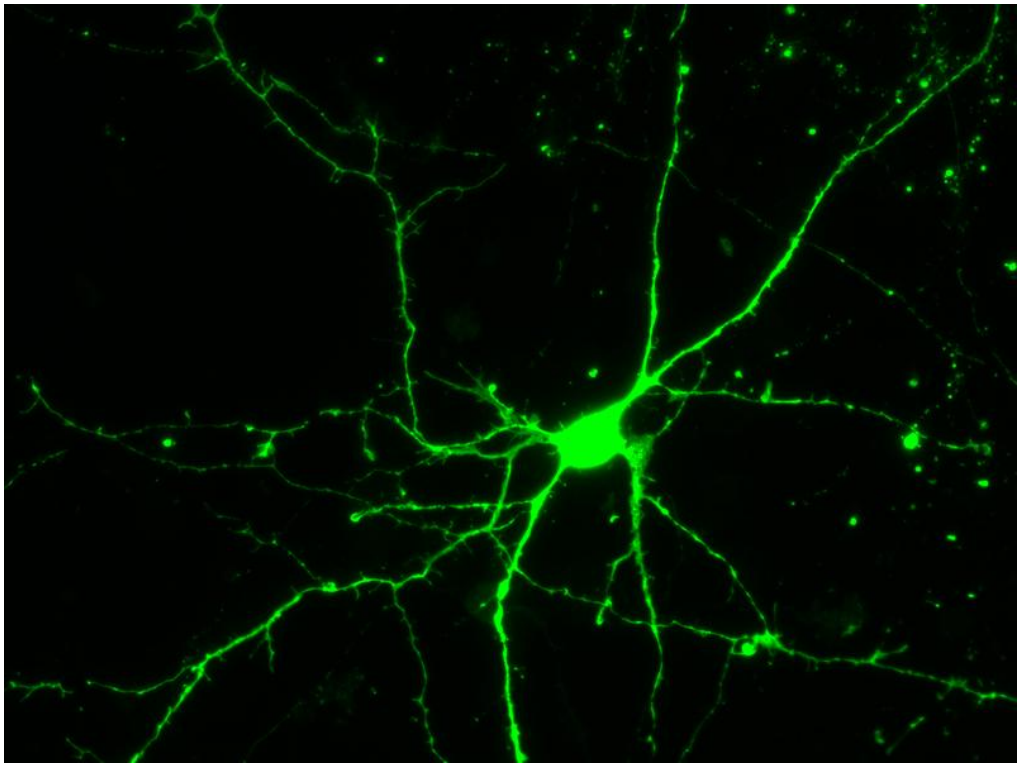
Electroporation: After 6 days in vitro (DIV) on 24-well plates

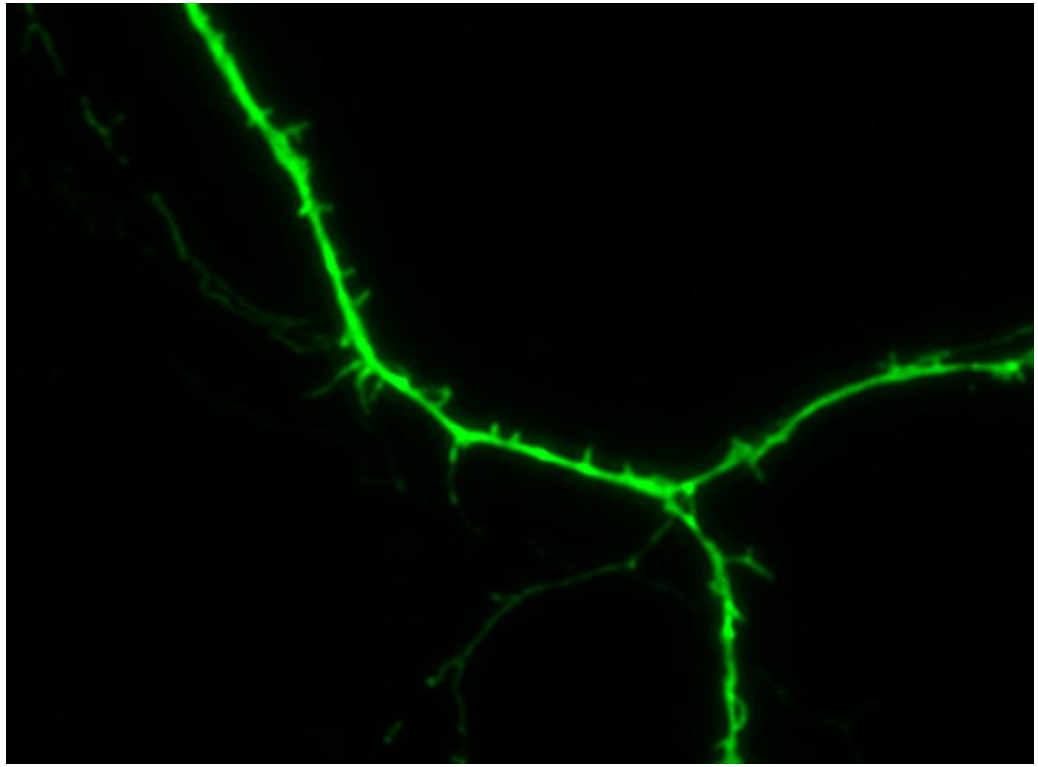
Pictures: 2 days after electroporation

Many robust EGFP signals suggest high transfection efficiency.



Primary Mouse Cerebral Cortex Neurons **in Adherence**



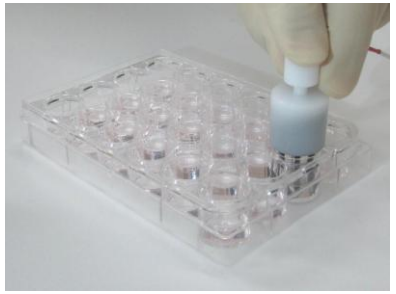


The neurons were prepared from E15 mouse cerebral cortex.

Electroporation: After 6 days in vitro (DIV) on 24-well plates

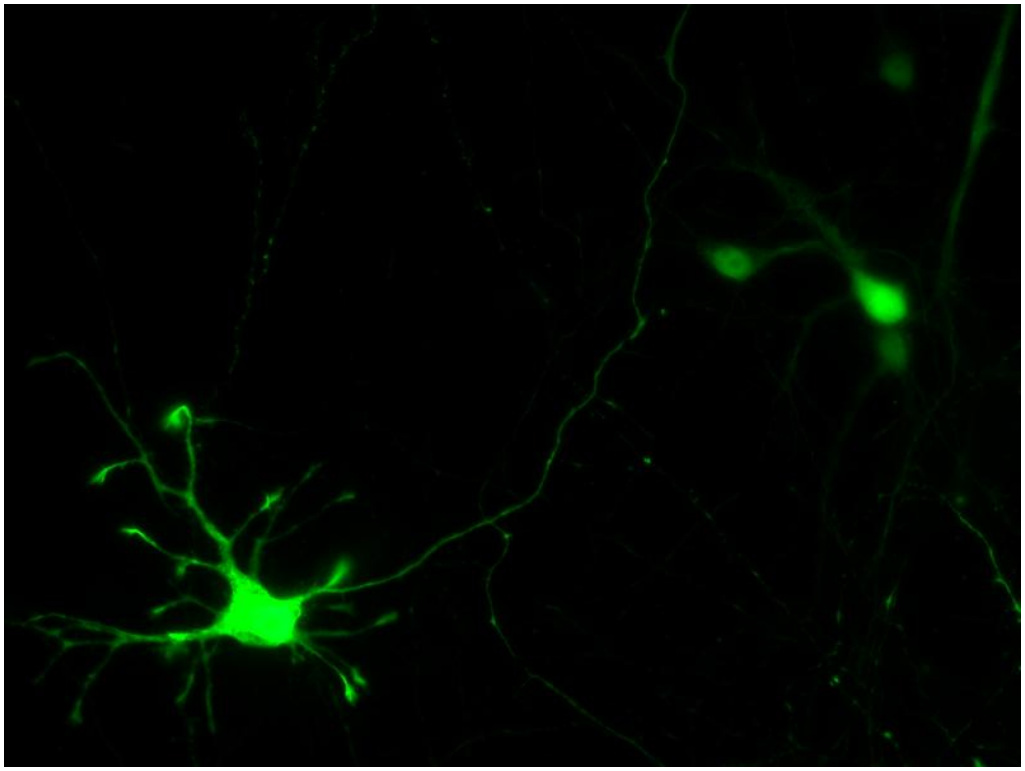
Pictures: 2 days after electroporation *High magnification

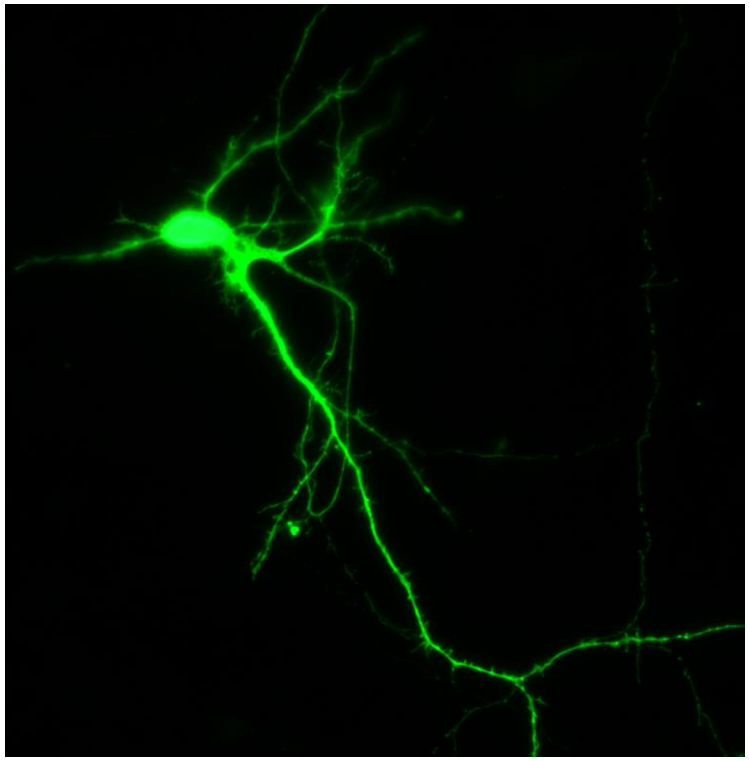
Neurites are shown clearly.



Department of Neurochemistry, National Institute of Neuroscience, Japan

Primary Mouse Cerebral Cortex Neurons **in Adherence**



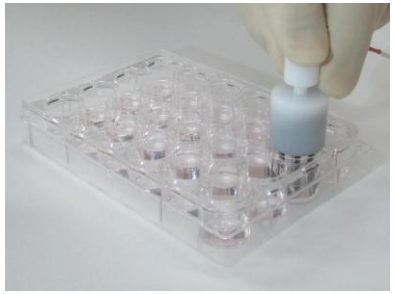


The neurons were prepared from E15 mouse cerebral cortex.

Electroporation: After 6 days in vitro (DIV) on 24-well plates

Pictures: 2 days after electroporation *High magnification

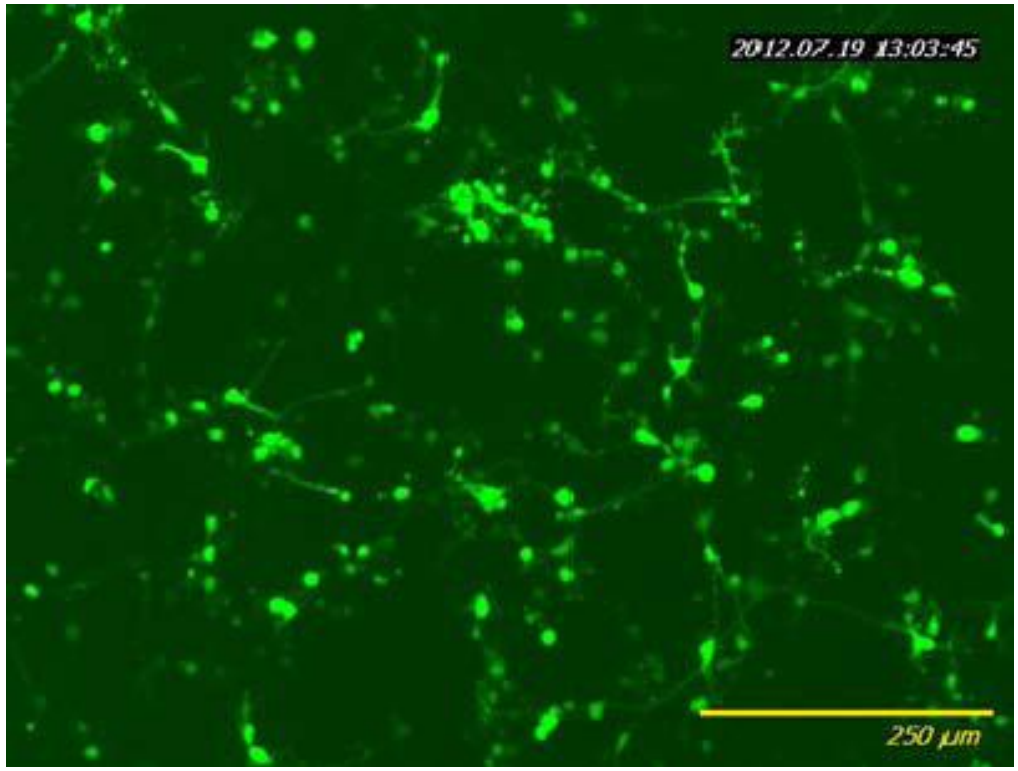
Neurites are shown clearly.



Department of Neurochemistry, National Institute of Neuroscience, Japan

Primary Mouse Cerebral Cortex Neurons **in Adherence**

V: 70%

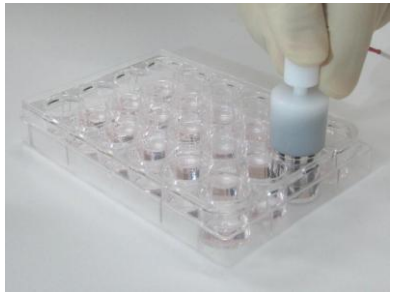


TE: 70%

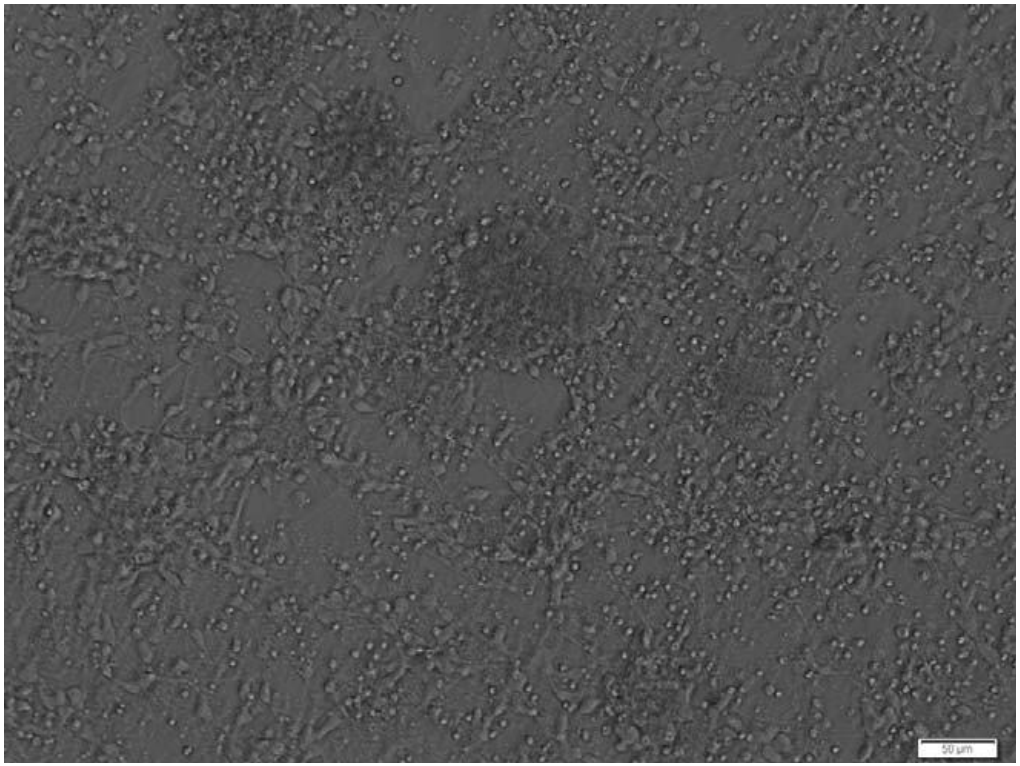
V: Viability TE: Transfection Efficiency

The neurons were prepared from E16 mouse cerebral cortex.

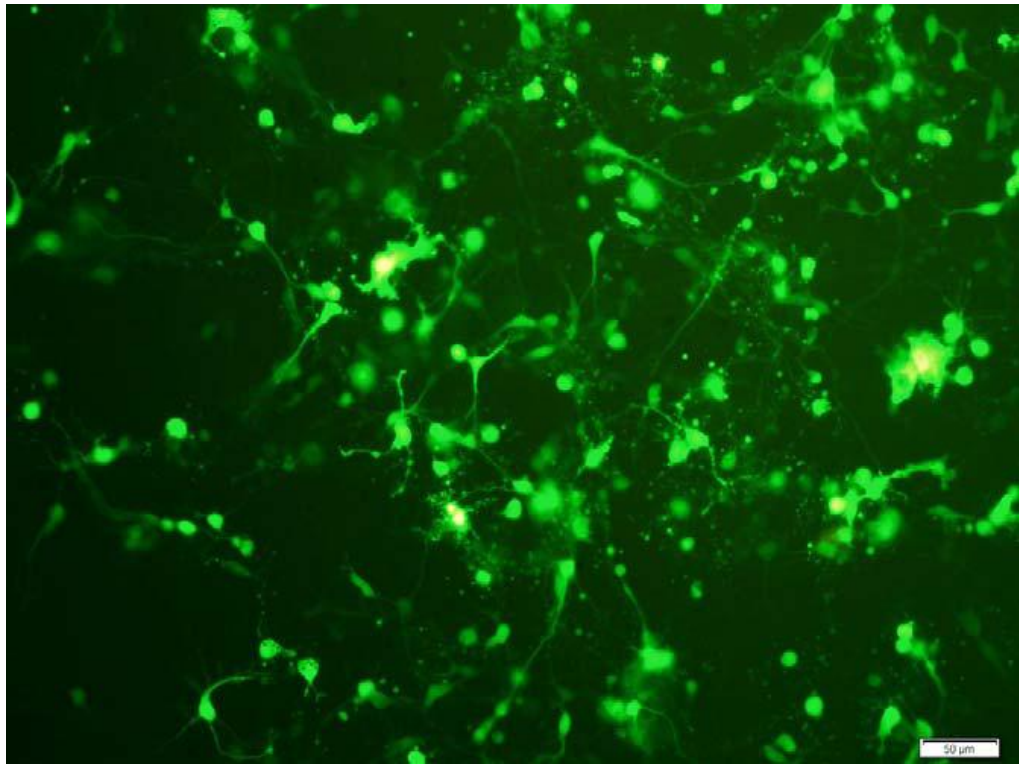
Electroporation: After 2 days in vitro (DIV) on 24-well plates



Primary Mouse Cerebral Cortex Neurons **in Adherence**



V: 60%

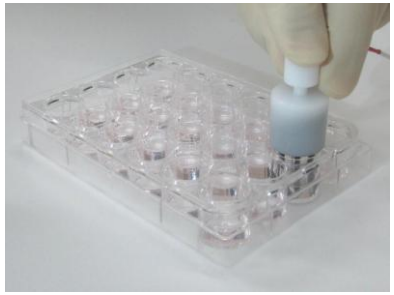


TE: 65%

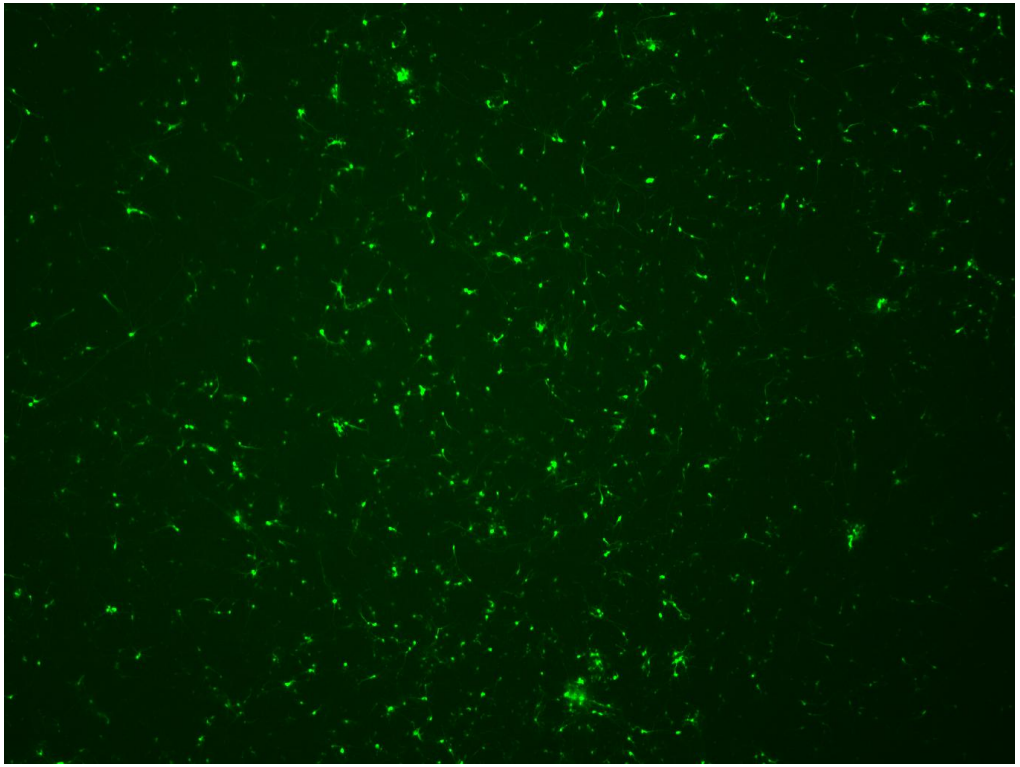
V: Viability TE: Transfection Efficiency

The neurons were prepared from E16 mouse cerebral cortex.

Electroporation: After 2 days in vitro (DIV) on 24-well plates



Primary Mouse Cerebral Cortex Neurons **in Adherence**



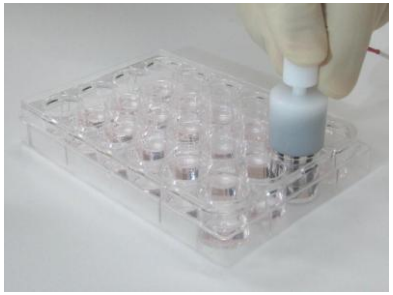
V: 95%

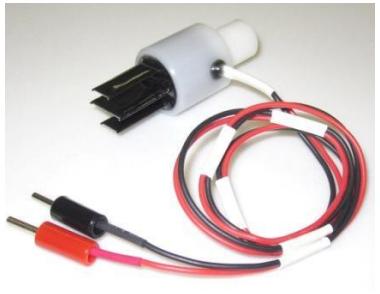
TE: 75%

V: Viability TE: Transfection Efficiency

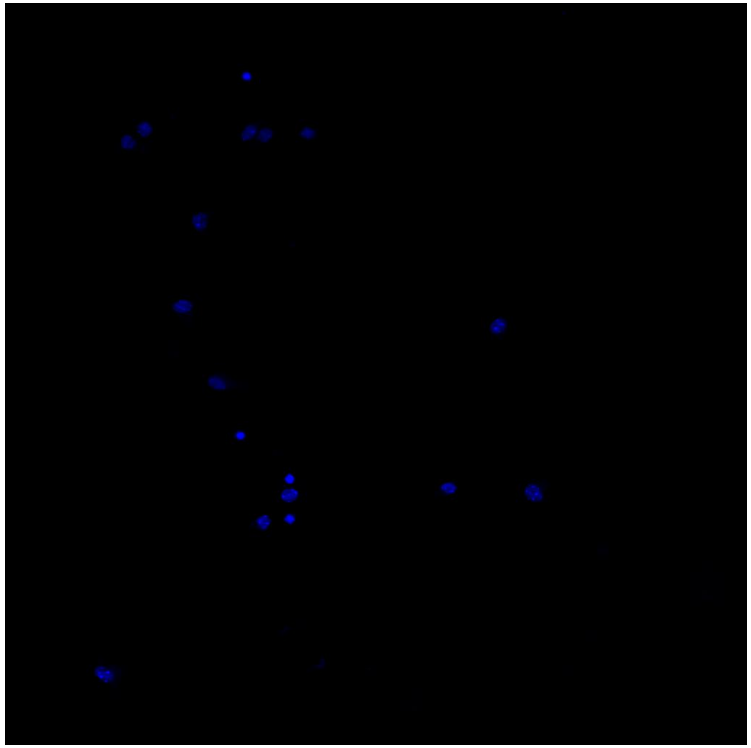
The neurons were prepared from E14 mouse cerebral cortex.

Electroporation: After 5 days in vitro (DIV) on 24-well plates

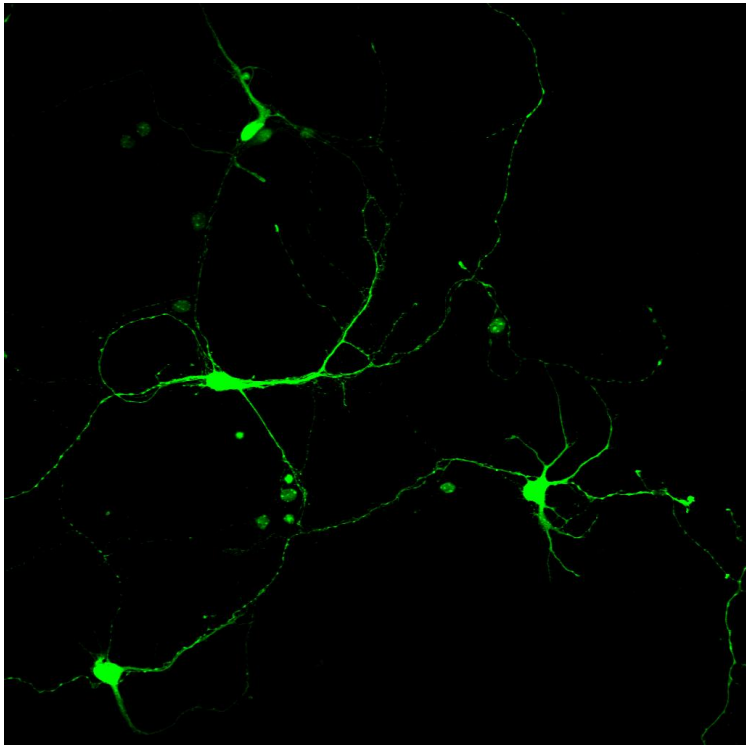




Primary Mouse Hippocampal Neurons **in Adherence**



V: 85%

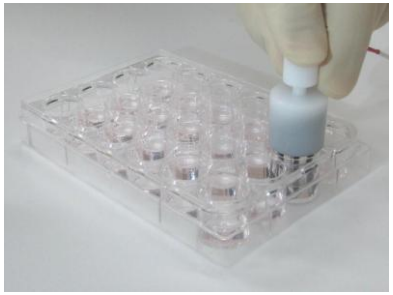


TE: 54%

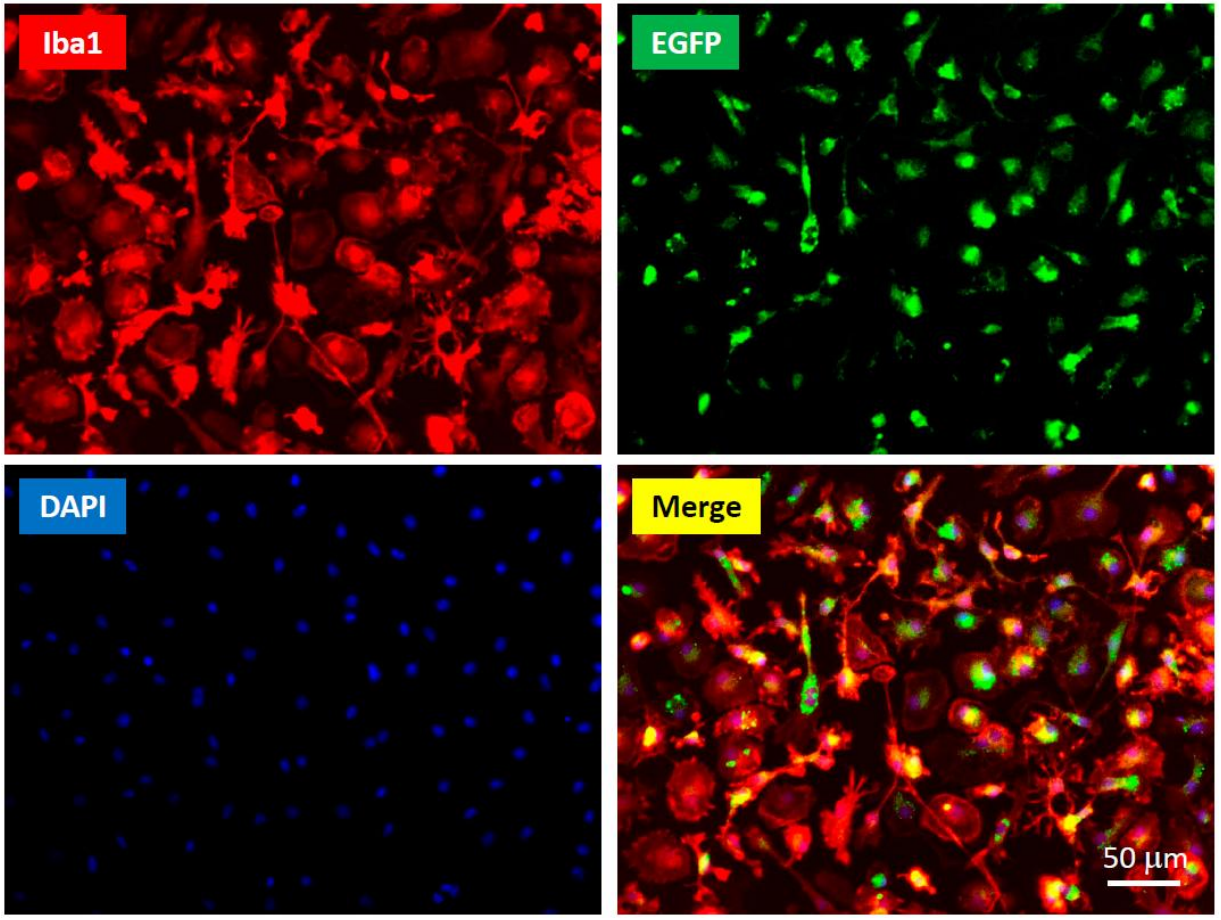
V: Viability TE: Transfection Efficiency

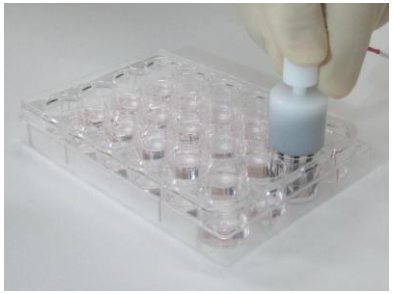
The neurons were prepared from E18 mouse cerebral cortex.

Electroporation: After 2 days in vitro (DIV) on 24-well plates



Primary Mouse Microglial cells **in Adherence**



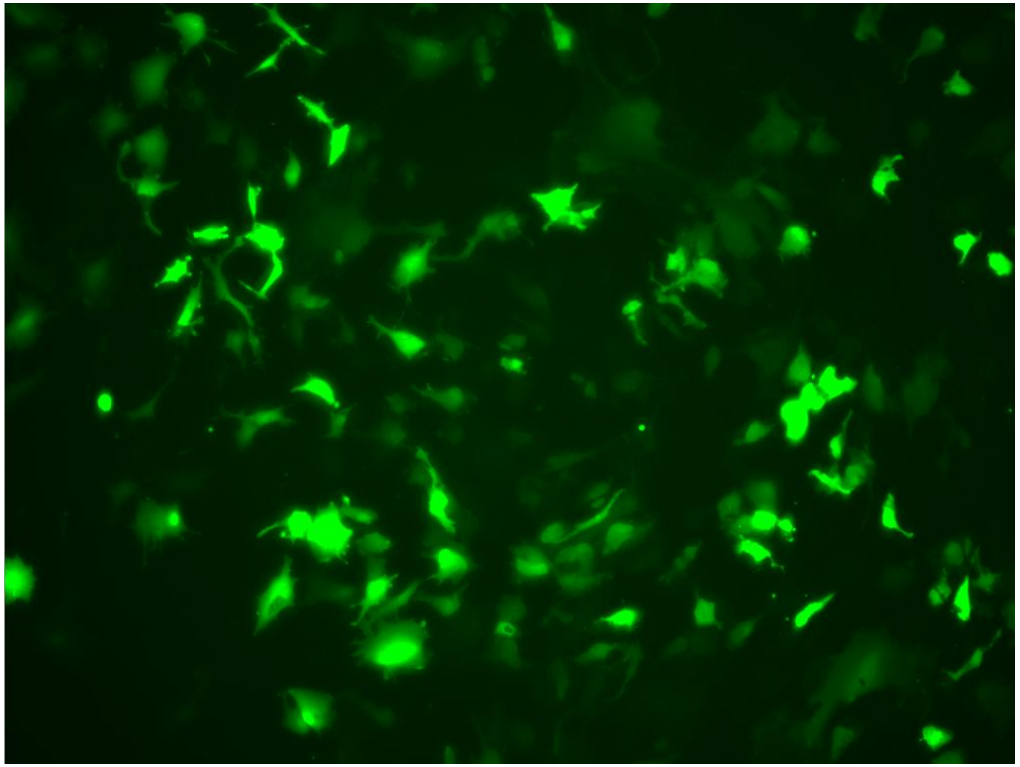


V: 80% TE: 73%

V: Viability TE: Transfection Efficiency

Electroporation: After 1 days in vitro (DIV) on 24-well plates, post 1-week co-culturing astrocyte and microglial cells

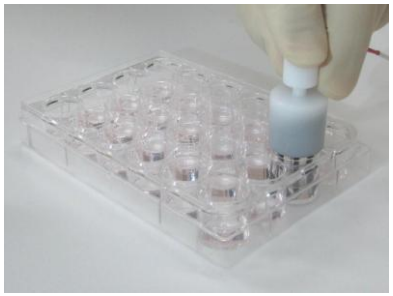
Primary Mouse Glial cells **in Adherence**



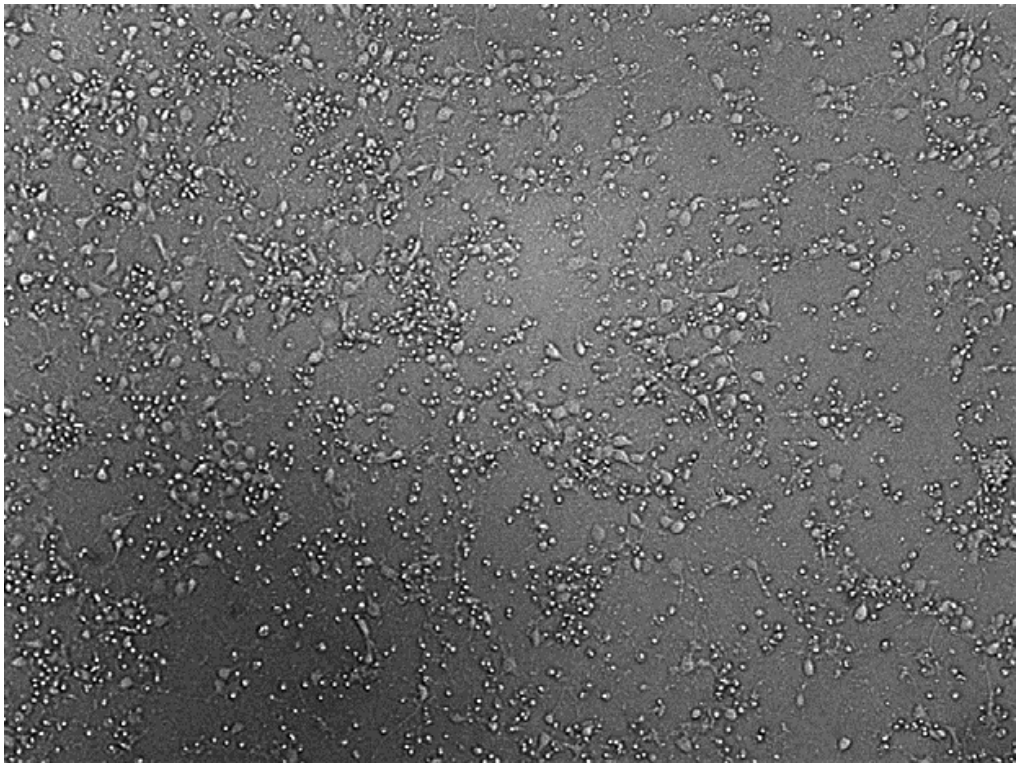
V: 80% TE: 50%

V: Viability TE: Transfection Efficiency

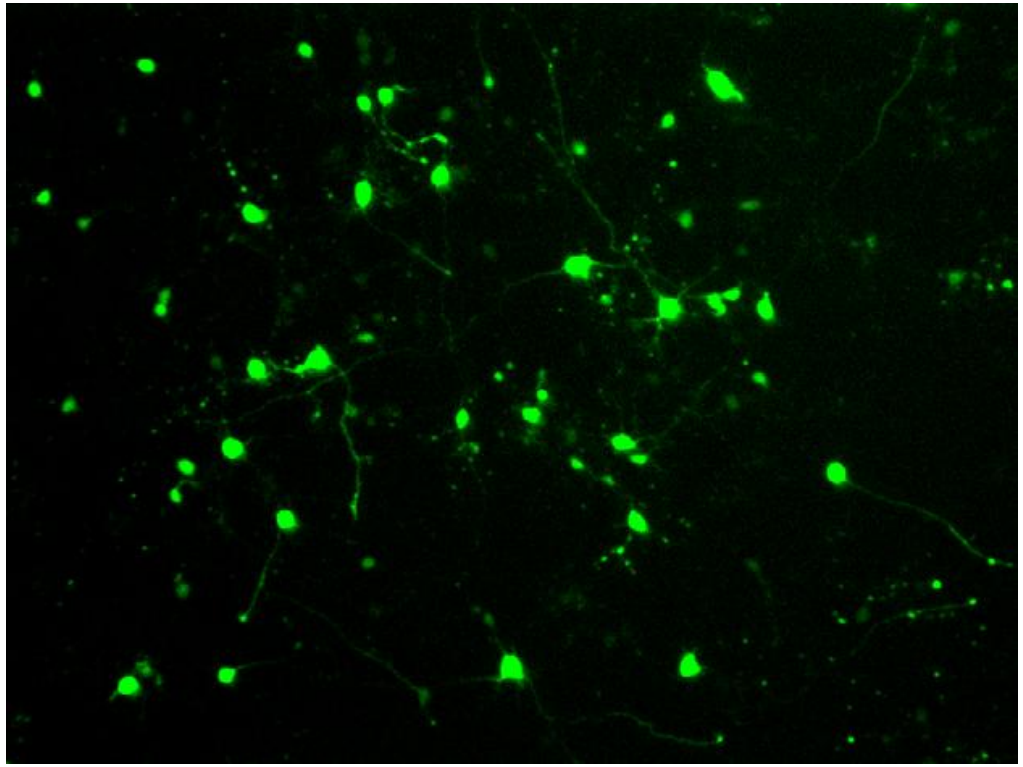
Electroporation: After 14 days in vitro (DIV)



Primary Rat Cerebral Cortex Neurons **in Adherence**



V: 70%



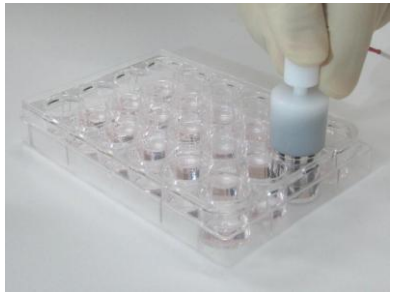
TE: 60%

V: Viability TE: Transfection Efficiency

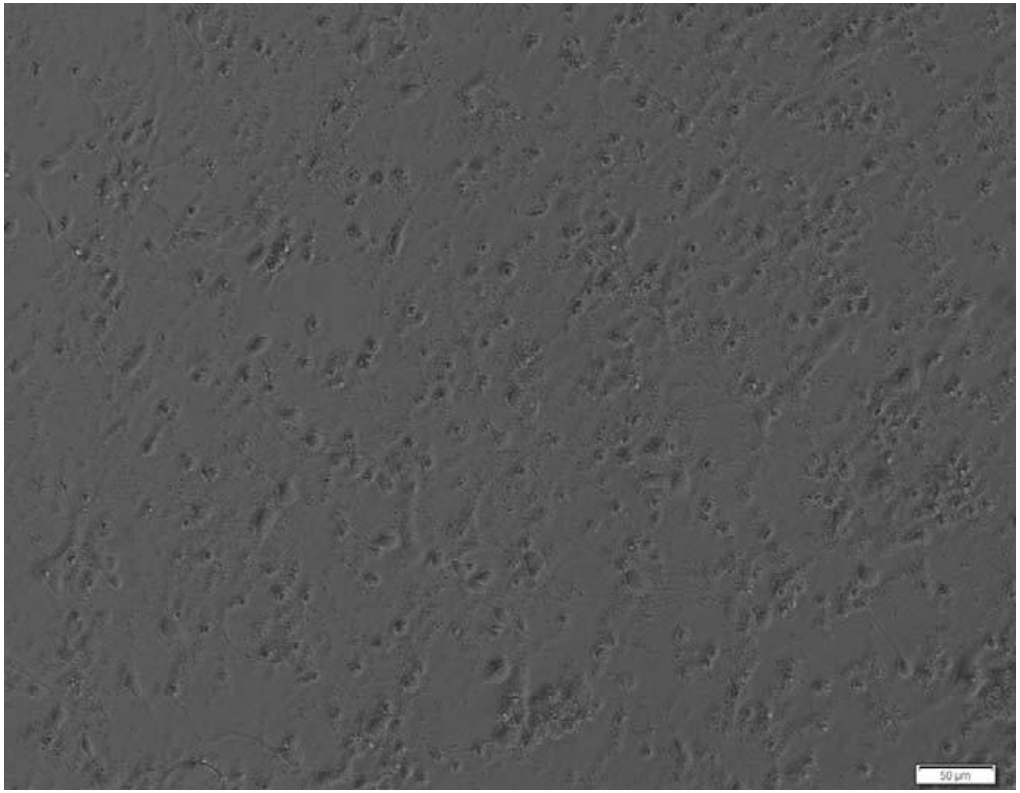
The neurons were prepared from E17 rat cerebral cortex.

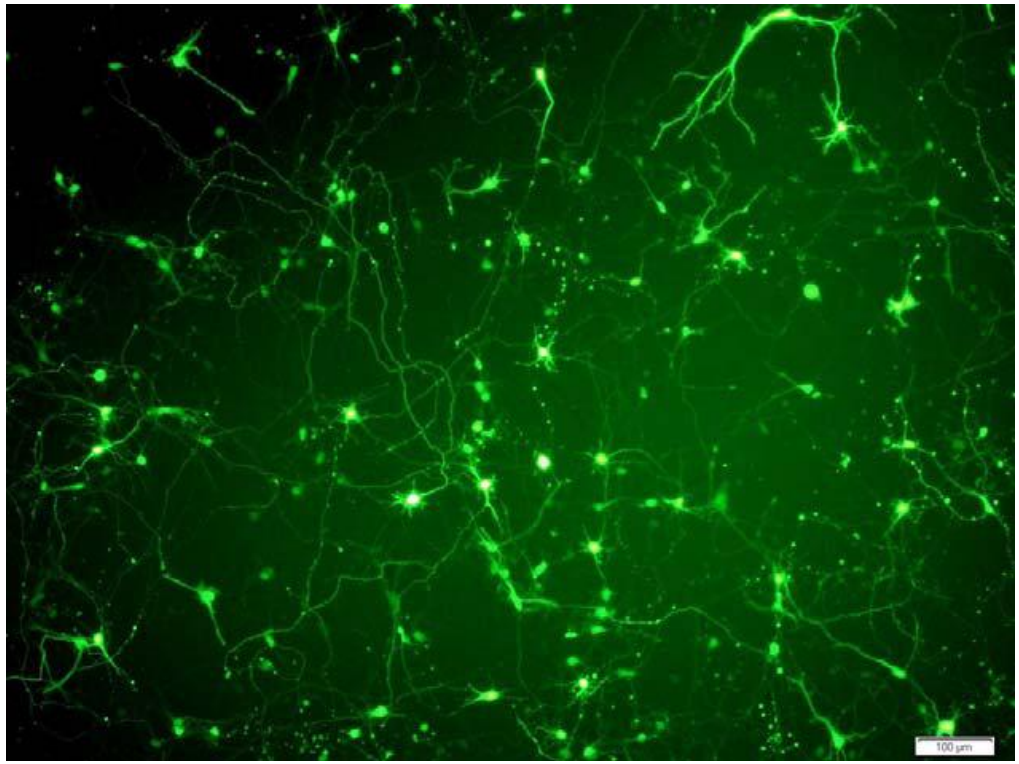
Electroporation: After 2 days in vitro (DIV) on 24-well plates

Pictures: 24 hours after electroporation



Primary Rat Hippocampal Neurons **in Adherence**





V: 70%

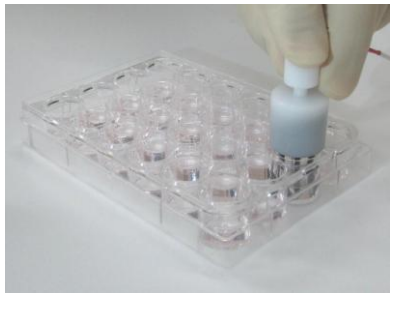
TE: 70%

V: Viability TE: Transfection Efficiency

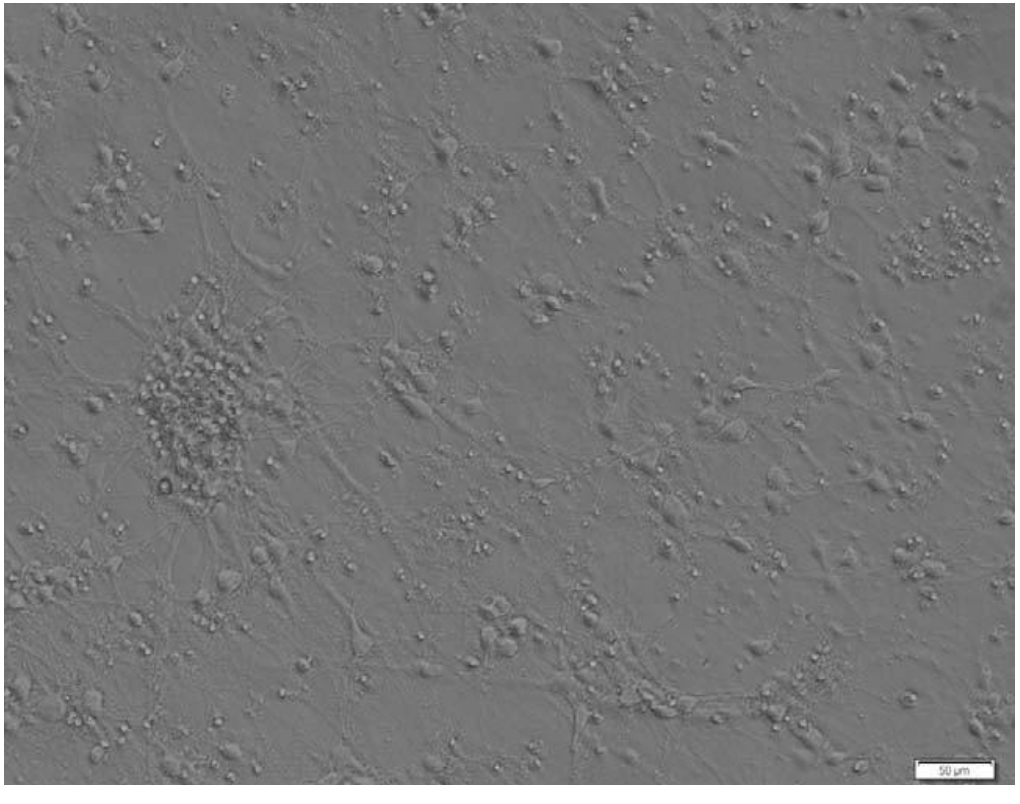
The neurons were prepared from E16 rat cerebral cortex.

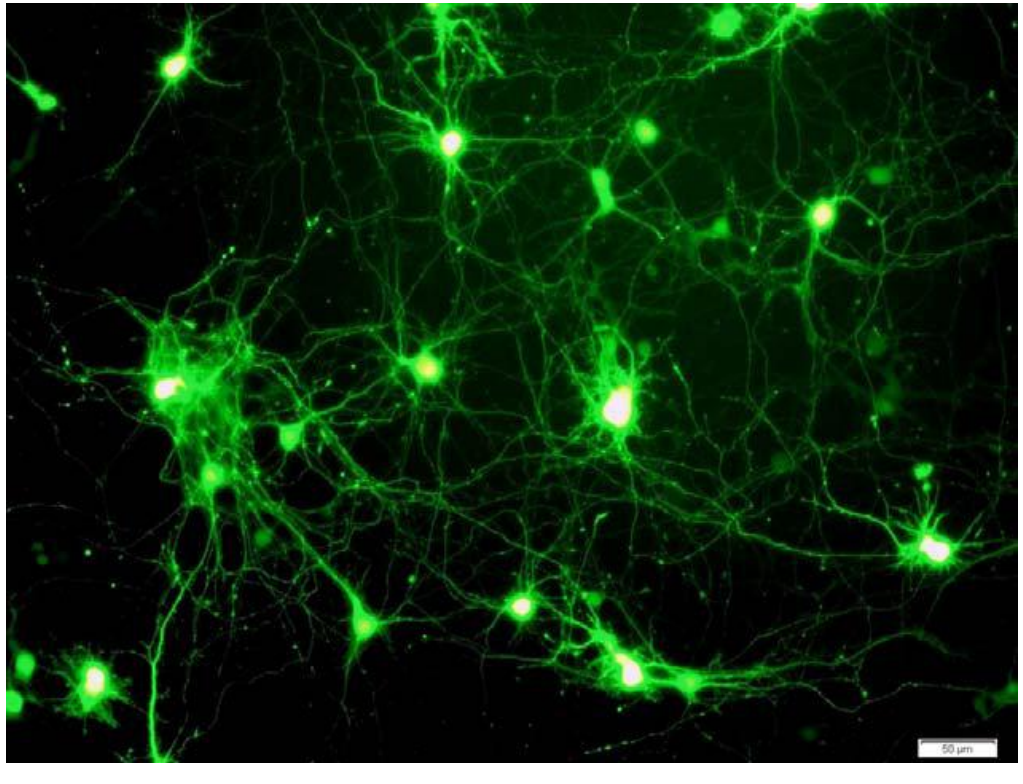
Electroporation: After 2 days in vitro (DIV) on 24-well plates

Pictures: 2 days after electroporation



Primary Rat Hippocampal Neurons **in Adherence**





V: 70%

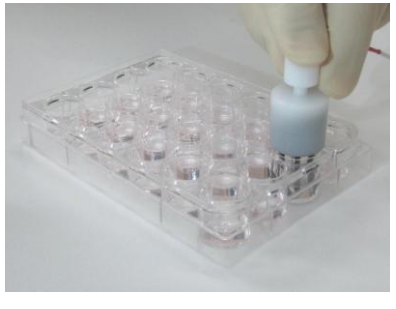
TE: 70%

V: Viability TE: Transfection Efficiency

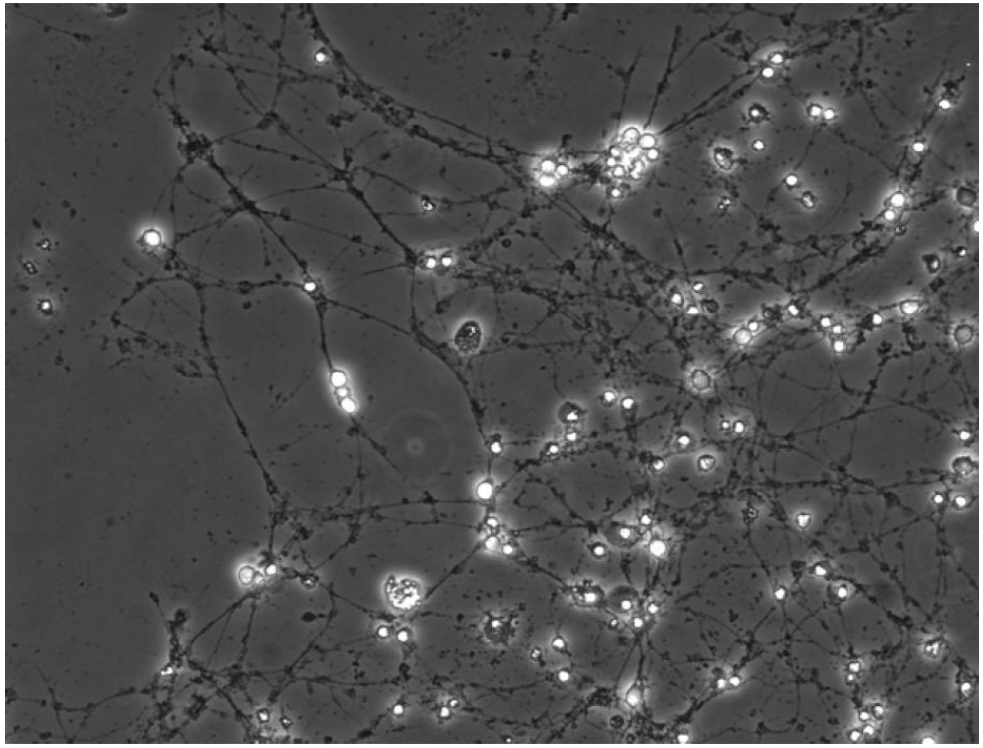
The neurons were prepared from E16 rat cerebral cortex.

Electroporation: After 2 days in vitro (DIV) on 24-well plates

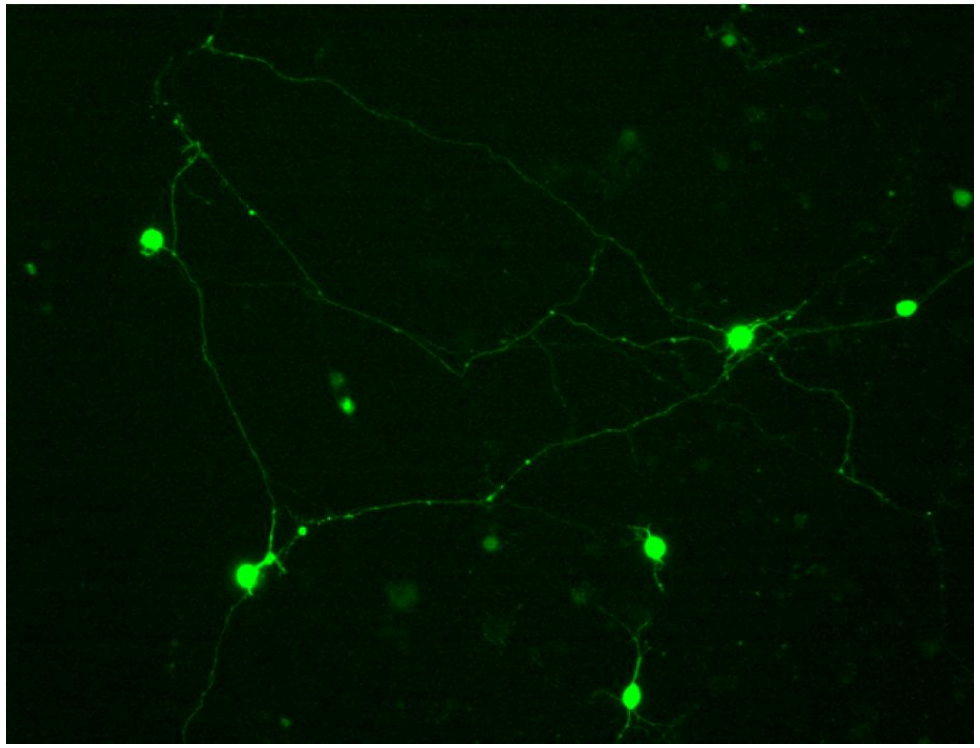
Pictures: 4 days after electroporation



Primary Rat Hippocampal Neurons **in Adherence**



V: 100%



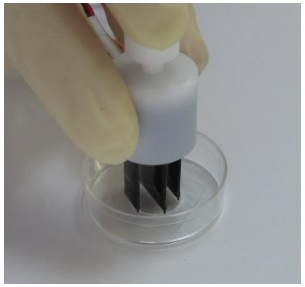
TE: 50%

V: Viability TE: Transfection Efficiency

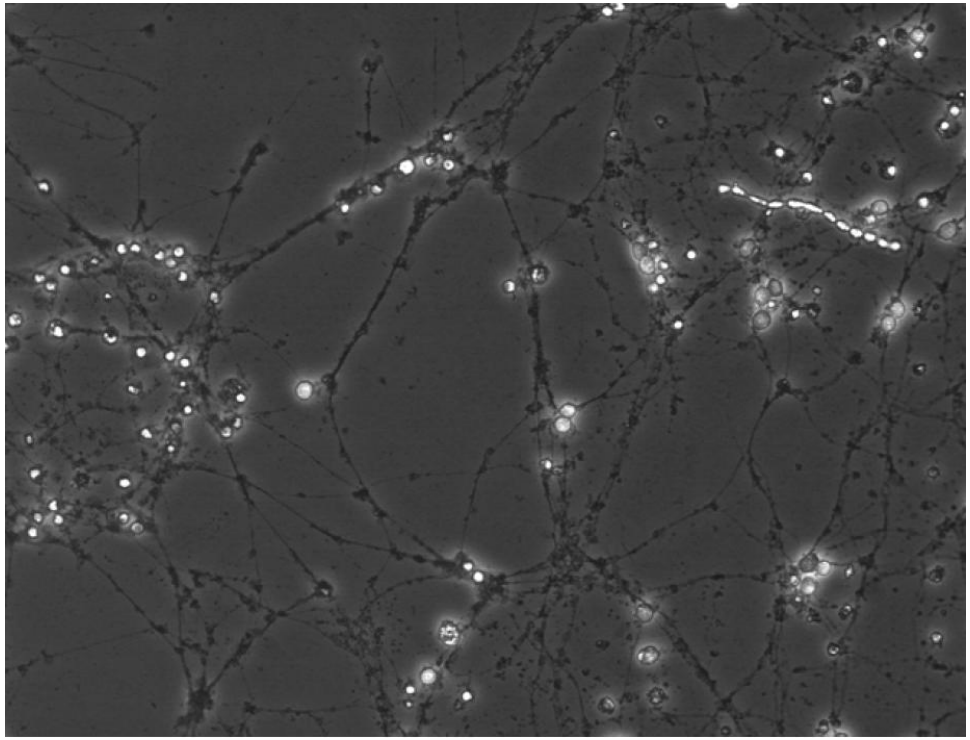
48 hours after electroporation

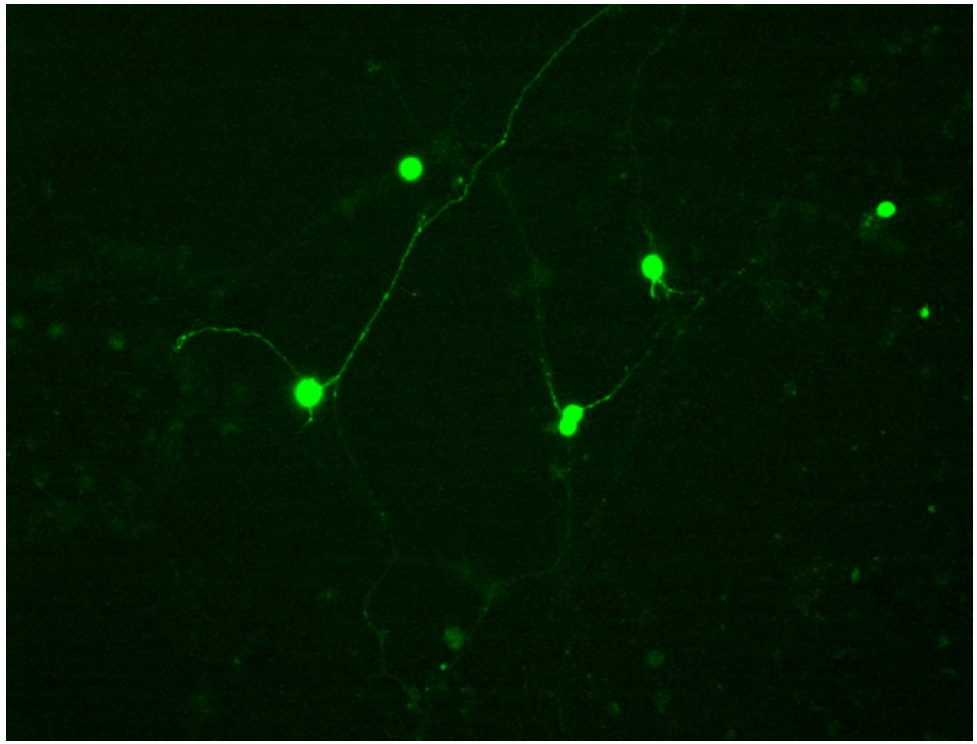
The neurons were prepared from P7 rat hippocampus.

Electroporation: After 11 DIV



Primary Rat Hippocampal Neurons **in Adherence**





V: 100%

TE: 50%

V: Viability TE: Transfection Efficiency

48 hours after electroporation

The neurons were prepared from P7 rat hippocampus.

Electroporation: After 11 DIV