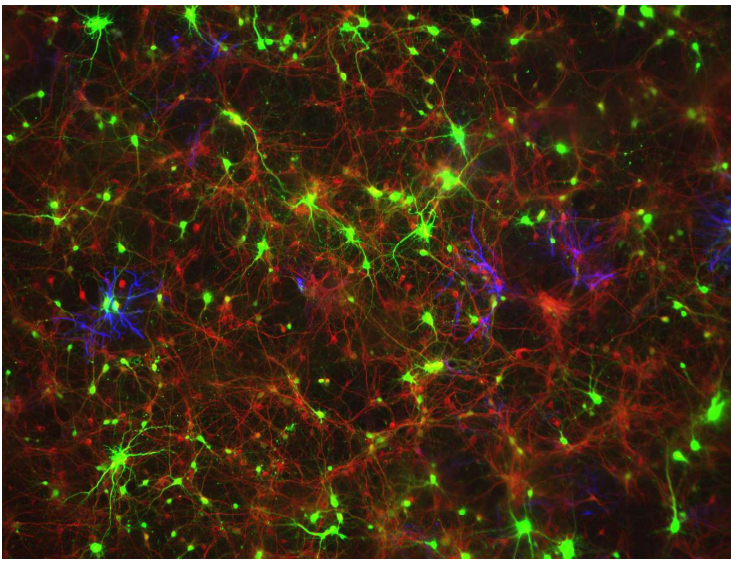
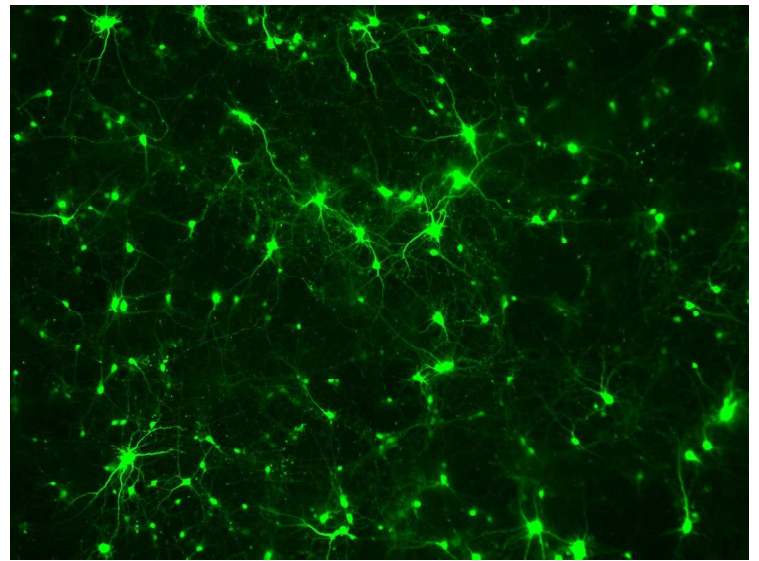


Primary Mouse Cerebral Cortex Neurons



V: 80%



TE: 70%

V: Viability TE: Transfection Efficiency

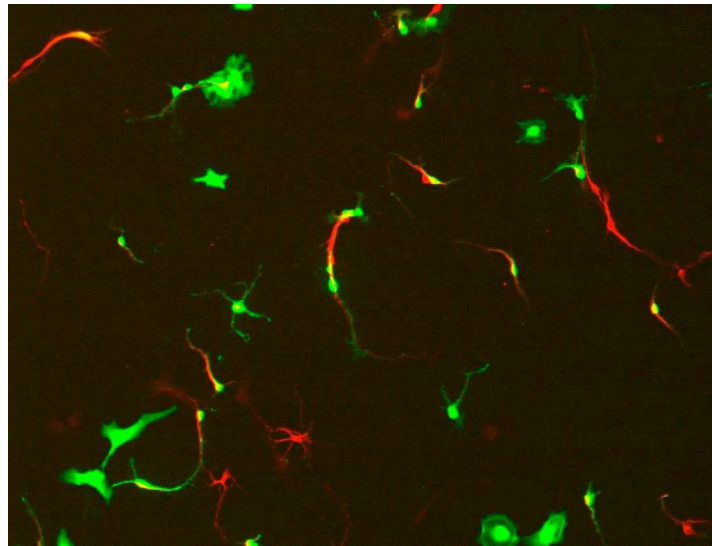
Pictures: 9 days after electroporation

Red: MAP2 Blue: GFAP Green: GFP

The cells were from Embryonic Day 14 Mouse Cerebral Cortex



Primary Mouse Hippocampal Neurons



V: 65% TE: 70%

V: Viability TE: Transfection Efficiency

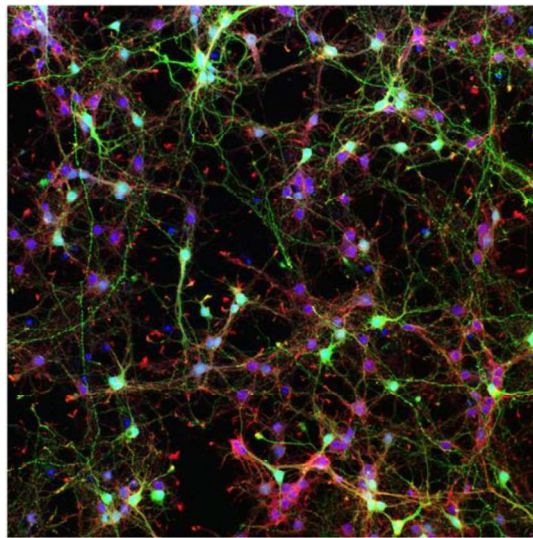
Pictures: 3 days after electroporation

Red: MAP2 Green: GFP

The cells were from Embryonic Day 17 mouse hippocampus



Primary Mouse Neural Progenitor Cells



V: 80% TE: 60%

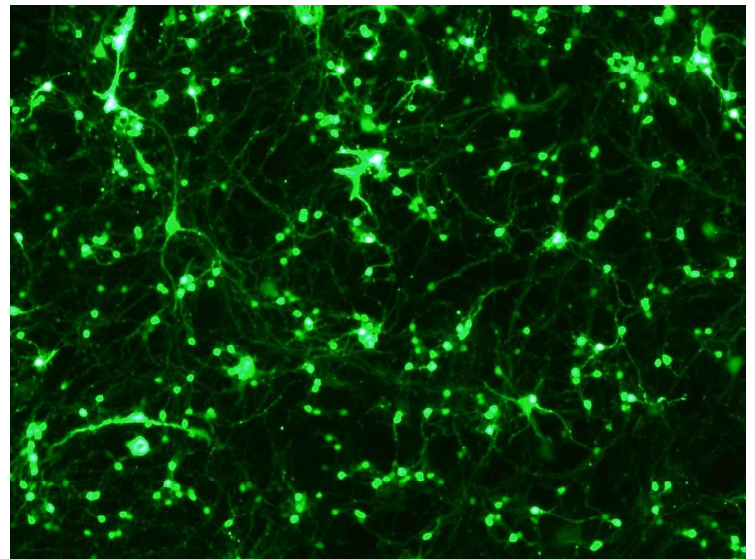
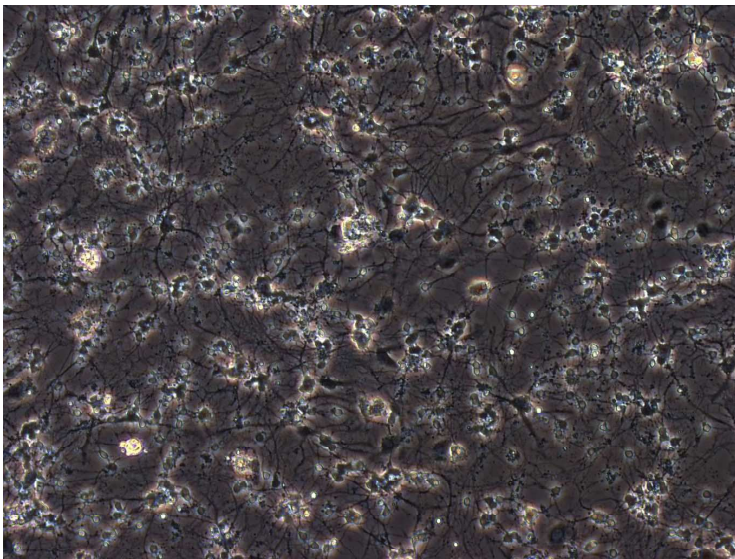
V: Viability TE: Transfection Efficiency

Pictures: 7 days after electroporation

Red: Phalloidin Blue: DAPI Green: GFP



Primary Mouse Cerebellar Granule Neurons



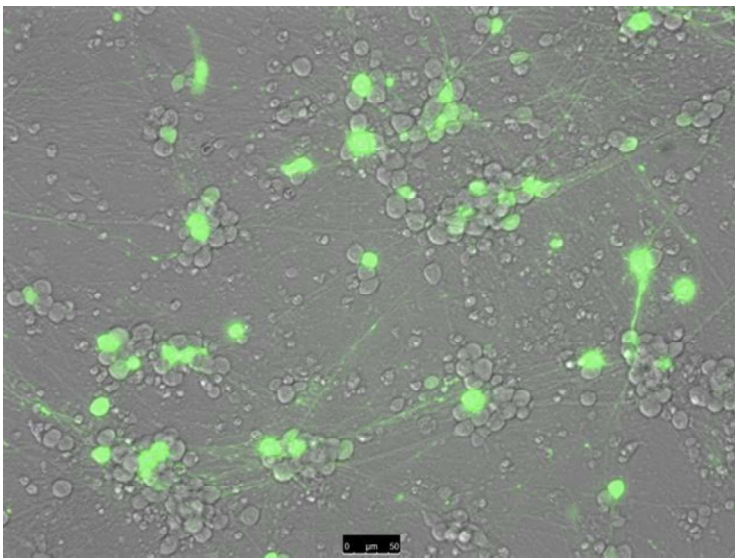
TE: 65%

V: Viability TE: Transfection Efficiency

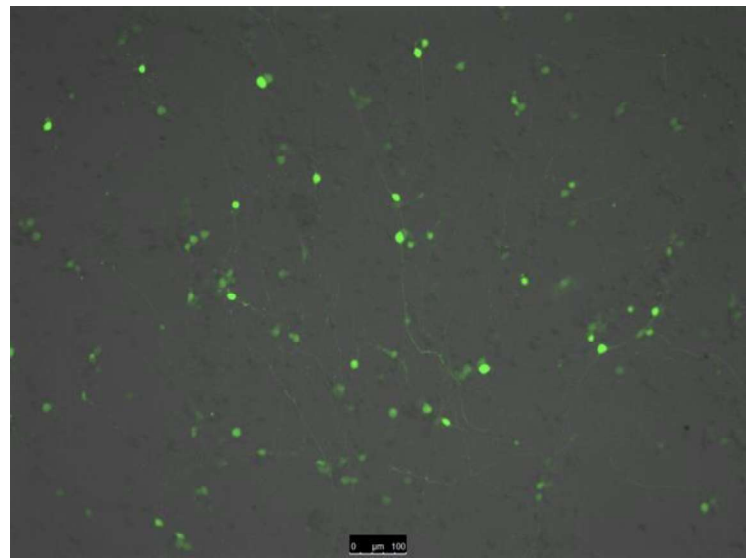
Nucleofector (Lonza amaxa) result: Transfection Efficiency 24%



Primary Mouse DRG Neurons



V: 70%

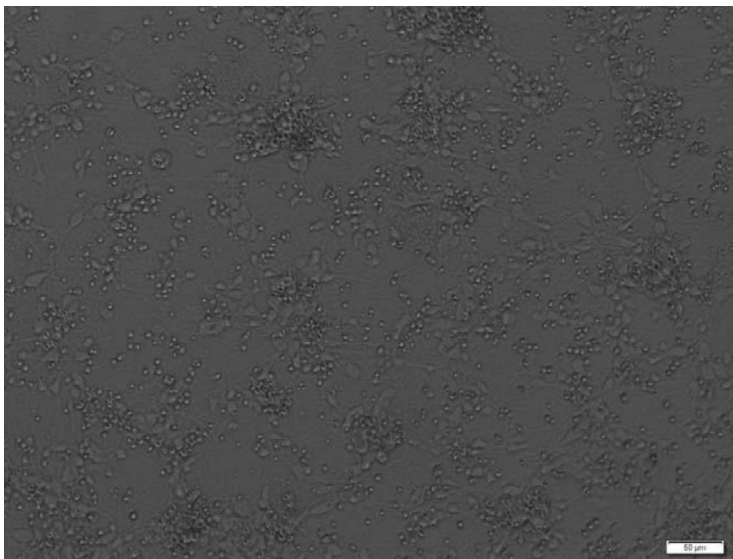


TE: 70%

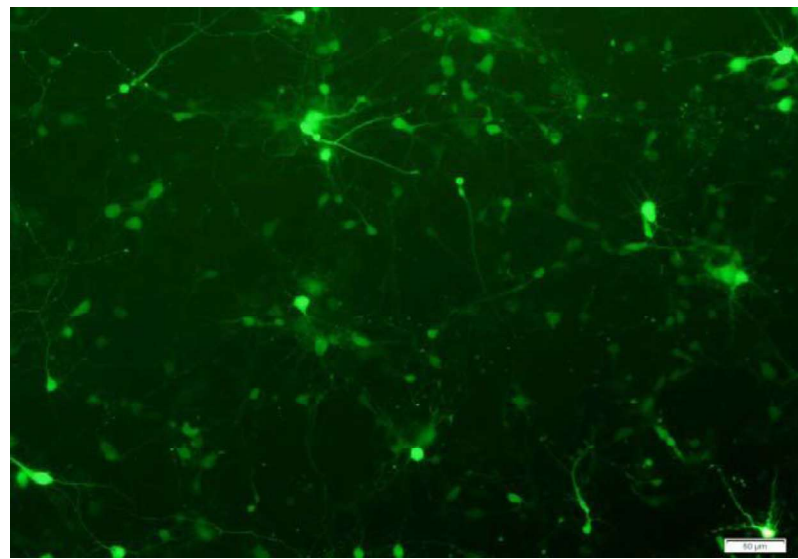
V: Viability TE: Transfection Efficiency



Primary Rat Cerebral Cortex Neurons



V: 70%



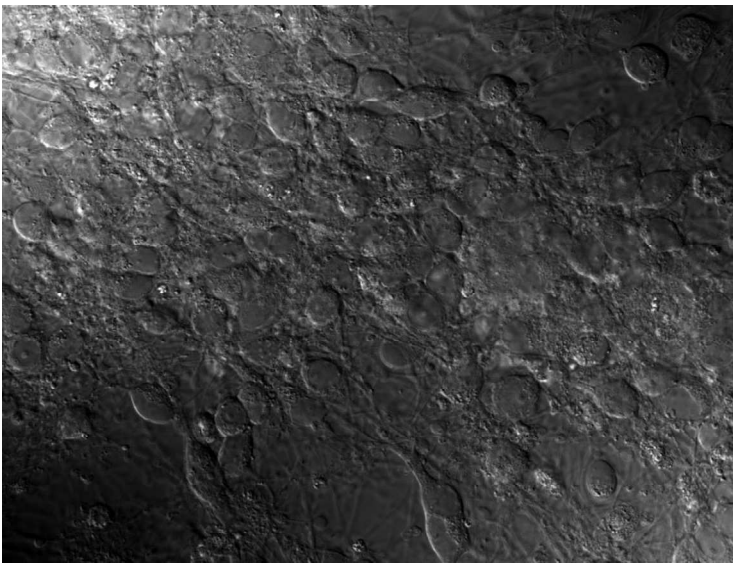
TE: 75%

V: Viability TE: Transfection Efficiency

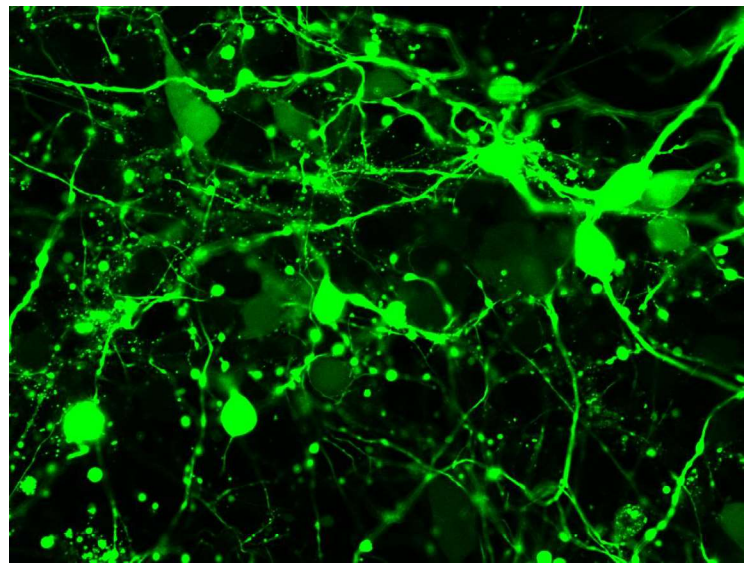
The cells were from Embryonic Day 16 Rat Cerebral Cortex.
Pictures: 5 days after electroporation



Primary Rat Bulbar Neurons



V: 80%



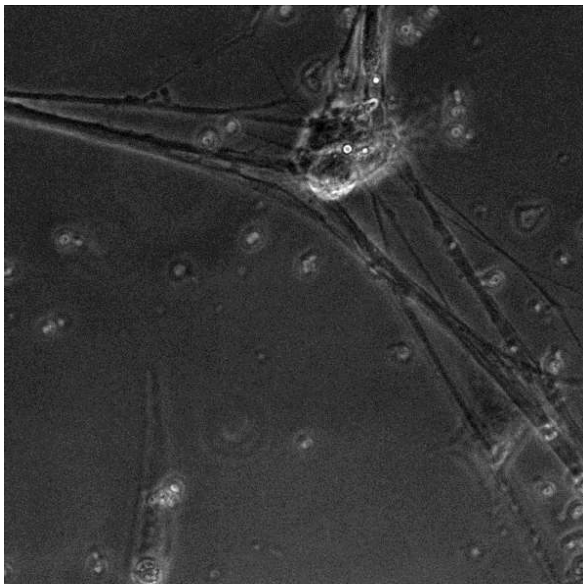
TE: 75%

V: Viability TE: Transfection Efficiency

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



Primary Chick Dorsal Root Ganglia



V: 90%



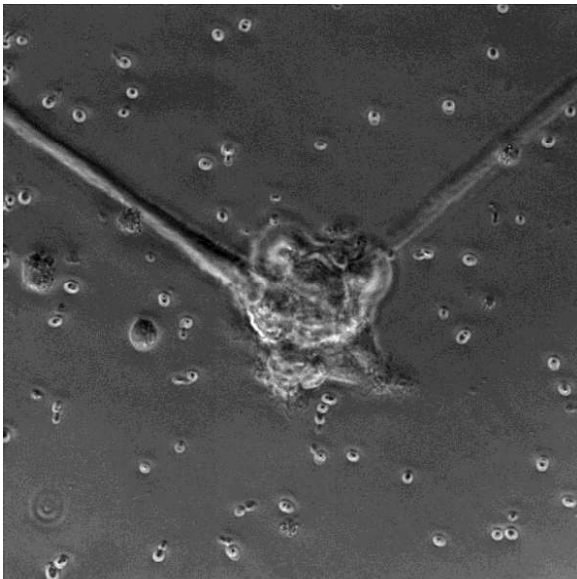
TE: 40%

V: Viability TE: Transfection Efficiency

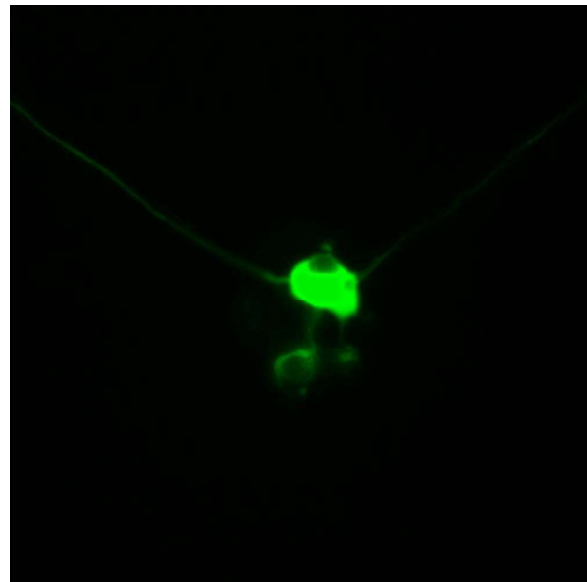
The cells were from day 7-9 chick embryos



Primary Chick Dorsal Root Ganglia



V: 90%



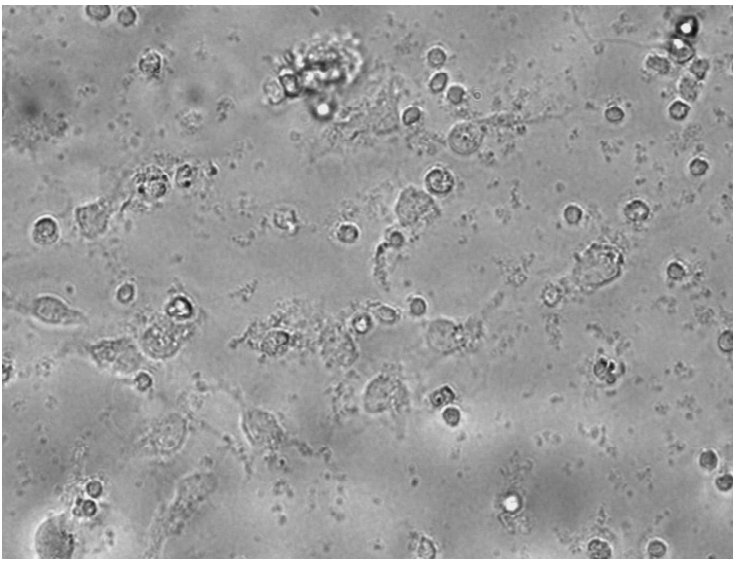
TE: 40%

V: Viability TE: Transfection Efficiency

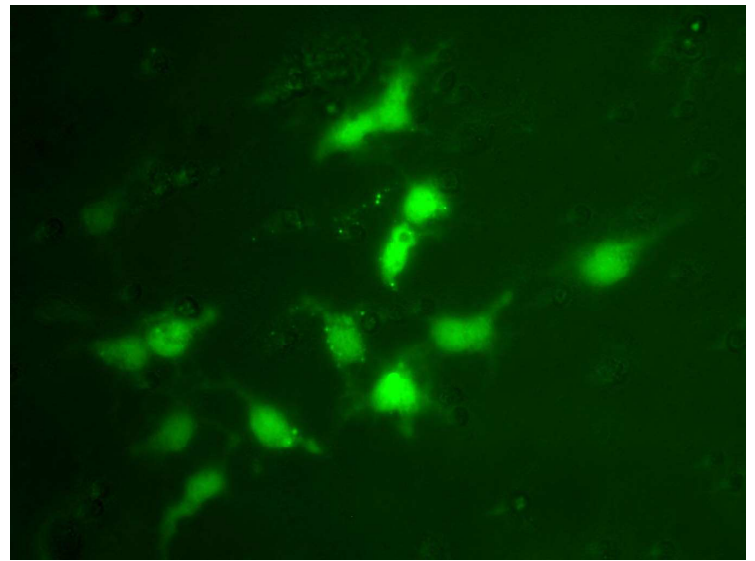
The cells were from day 7-9 chick embryos



Mouse Neural Stem Cells



V: 90%

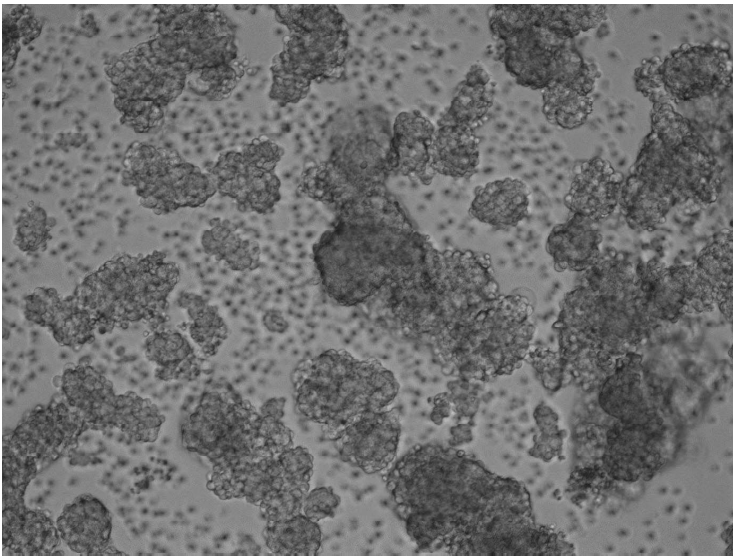


TE: 80%

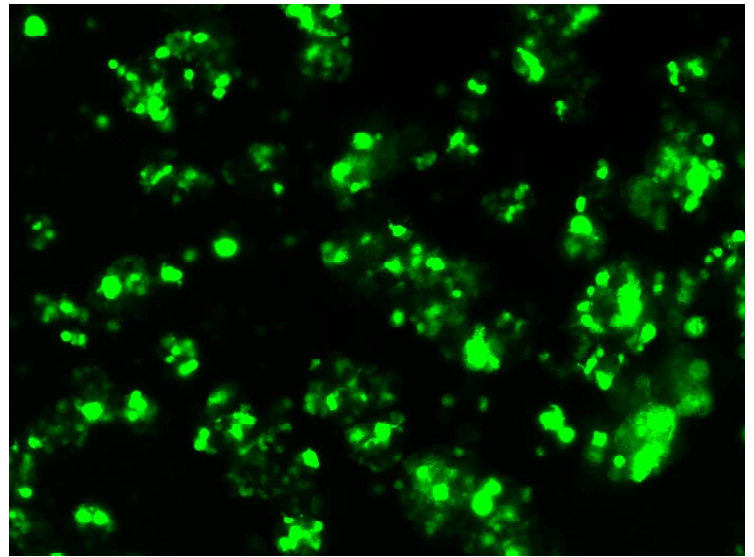
V: Viability TE: Transfection Efficiency



Mouse Neurospheres



V: 90%



TE: 75%

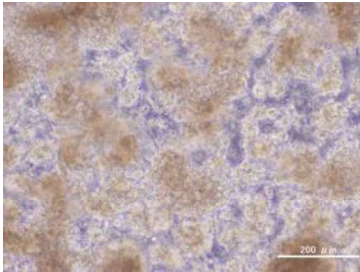
V: Viability TE: Transfection Efficiency

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

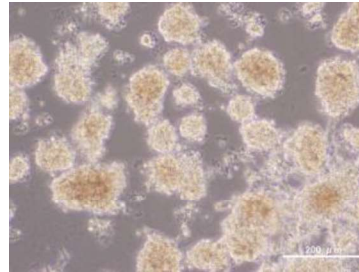
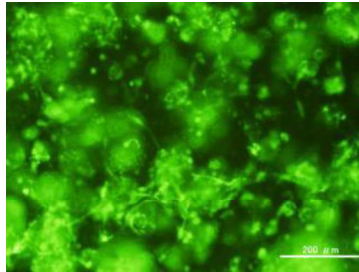


Mouse Neurospheres

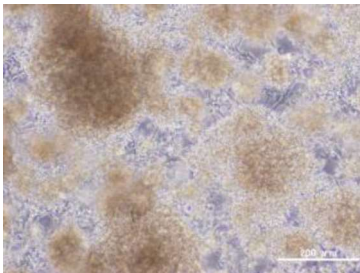
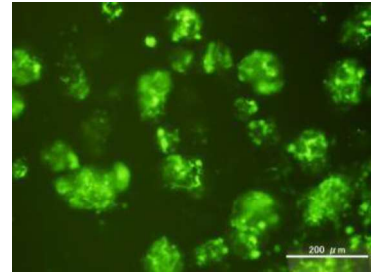
Neural stem cells derived from mouse SVZ



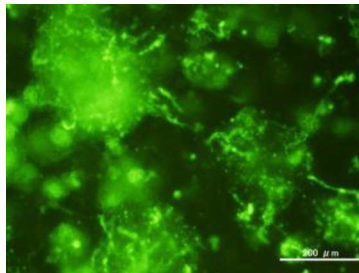
24 hours after electroporation



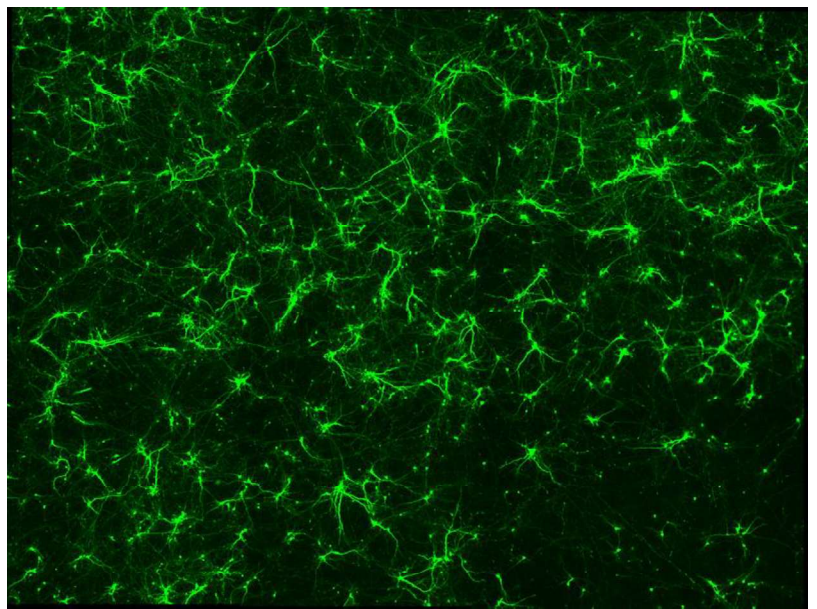
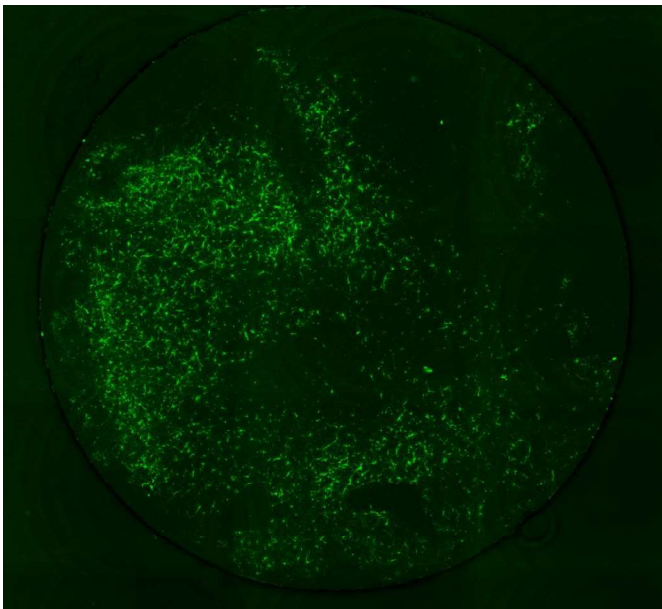
48 hours after electroporation



72 hours after electroporation



Primary Mouse Cerebral Cortex Neurons **in Adherence**

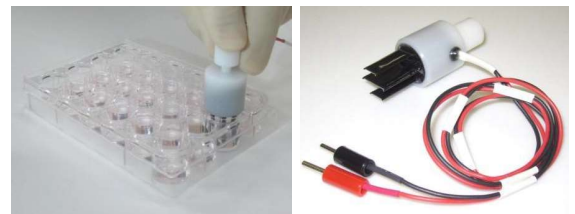


The neurons were prepared from E15 mouse cerebral cortex.

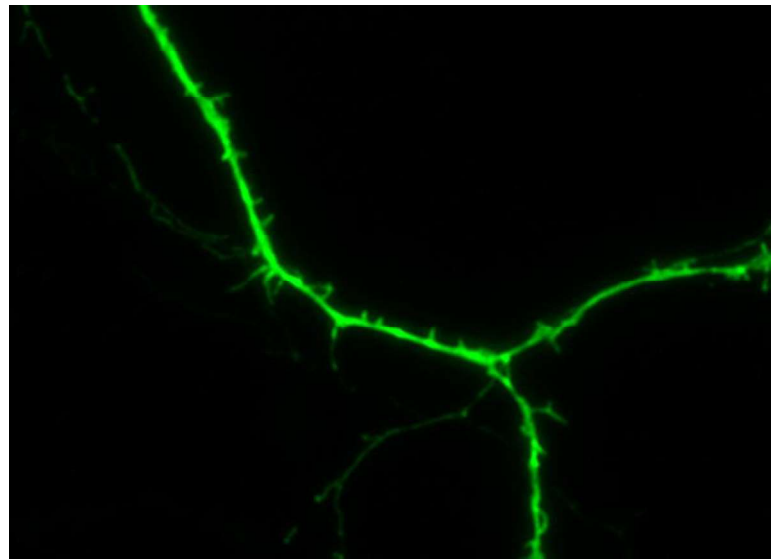
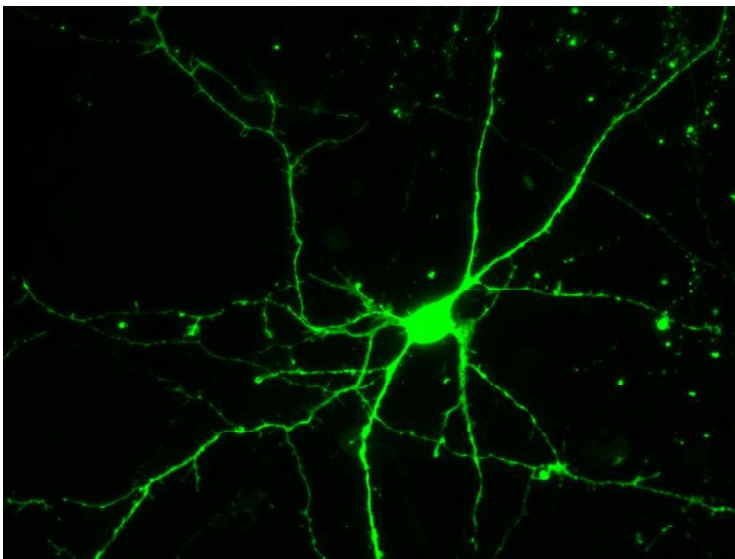
Electroporation: After 6 days in vitro (DIV) on 24-well plates

Pictures: 2 days after electroporation

Many robust EGFP signals suggest high transfection efficiency.



Primary Mouse Cerebral Cortex Neurons **in Adherence**

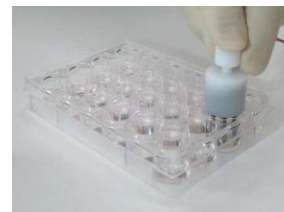


The neurons were prepared from E15 mouse cerebral cortex.

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

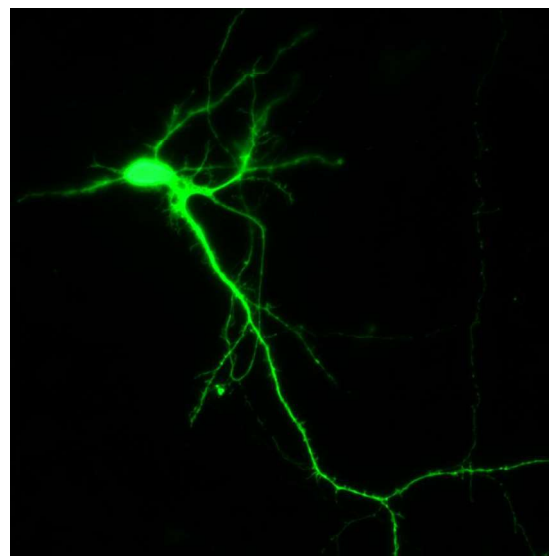
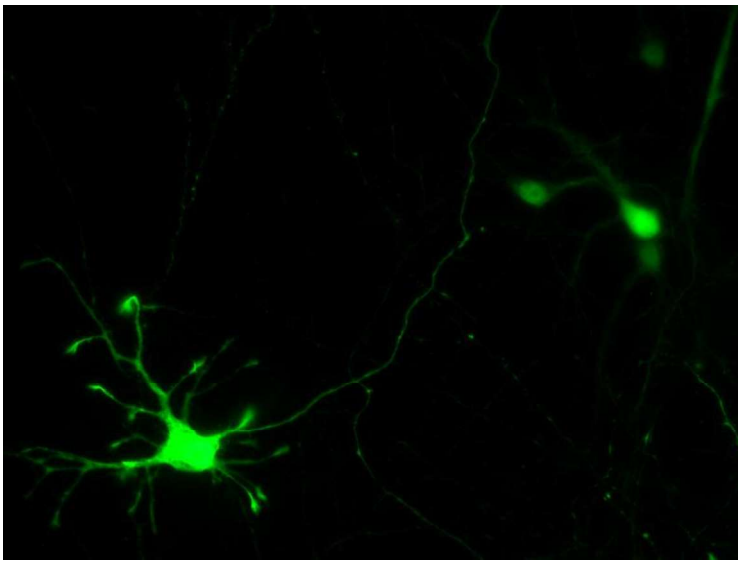
Pictures: 2 days after electroporation *High magnification

Neurites are shown clearly.



Department of Neurochemistry, National Institute of Neuroscience, Japan

Primary Mouse Cerebral Cortex Neurons **in Adherence**

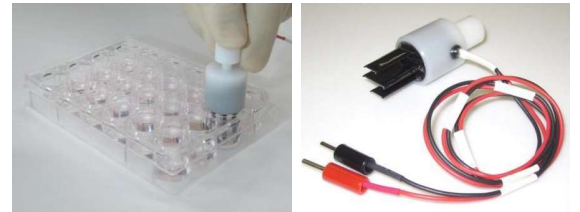


The neurons were prepared from E15 mouse cerebral cortex.

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

Pictures: 2 days after electroporation *High magnification

Neurites are shown clearly.

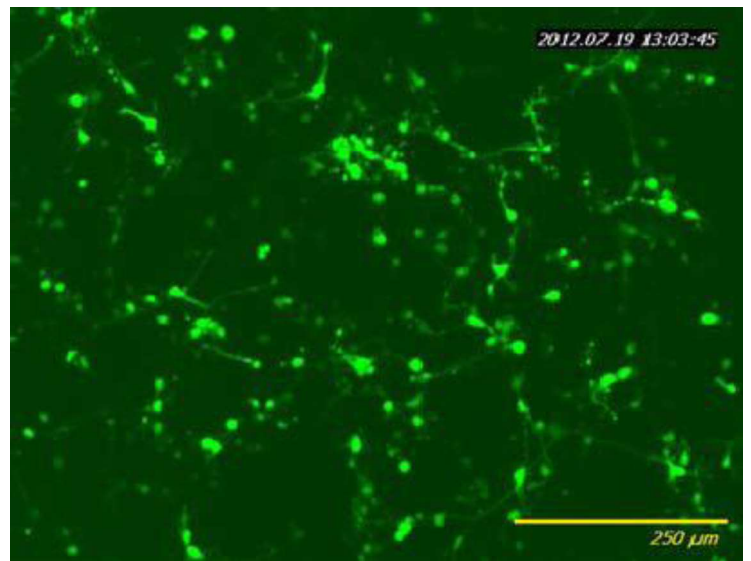


Department of Neurochemistry, National Institute of Neuroscience, Japan

Primary Mouse Cerebral Cortex Neurons **in Adherence**



V: 70%

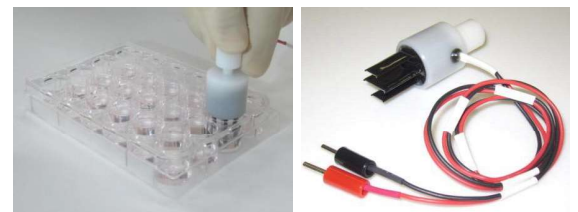


TE: 70%

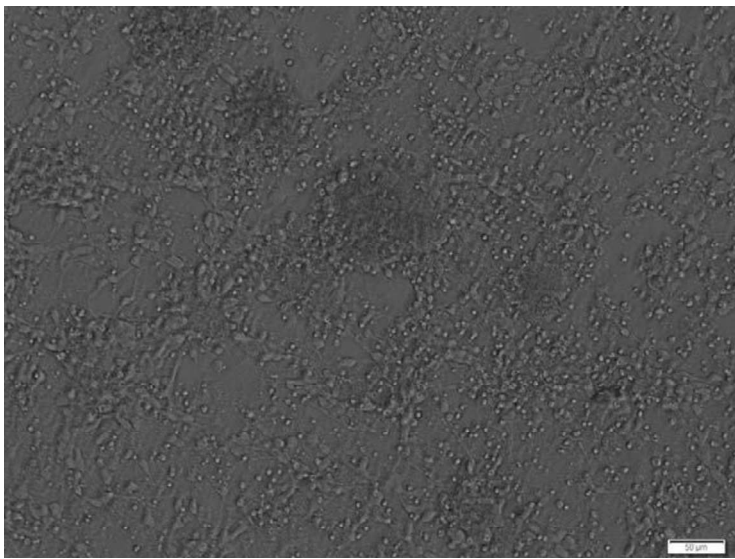
V: Viability TE: Transfection Efficiency

The neurons were prepared from E16 mouse cerebral cortex.

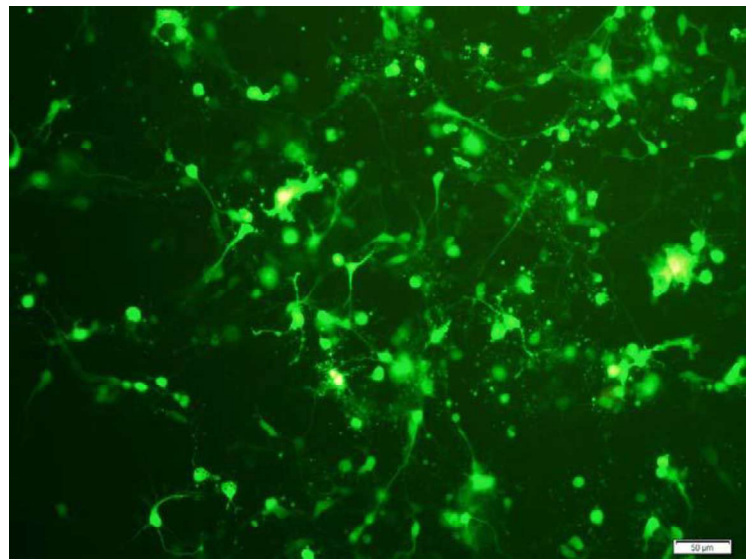
Electroporation: After 2 days in vitro (DIV) on 24-well plates



Primary Mouse Cerebral Cortex Neurons **in Adherence**



V: 60%

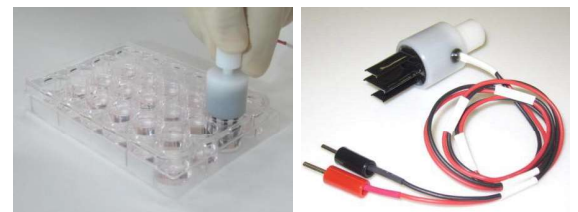


TE: 65%

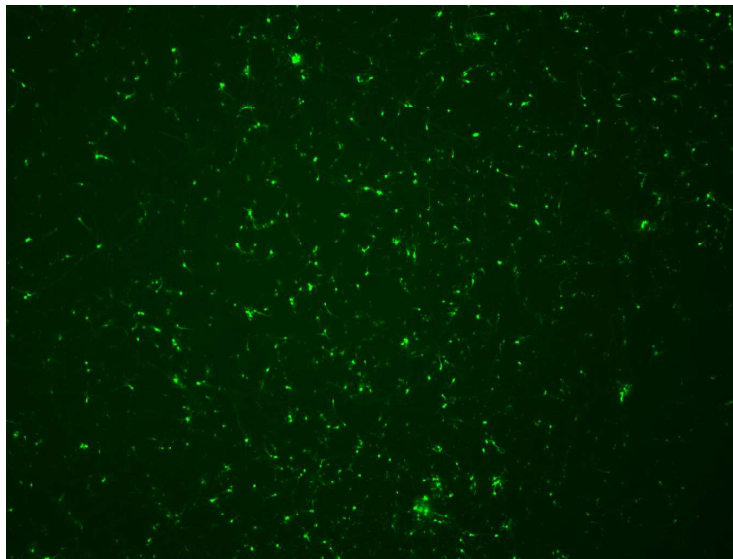
V: Viability TE: Transfection Efficiency

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**



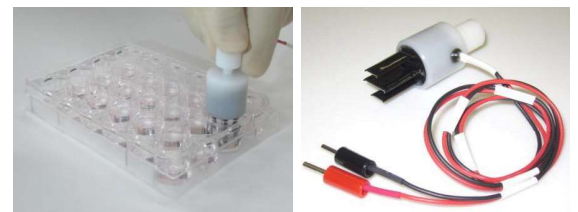
V: 95%

TE: 75%

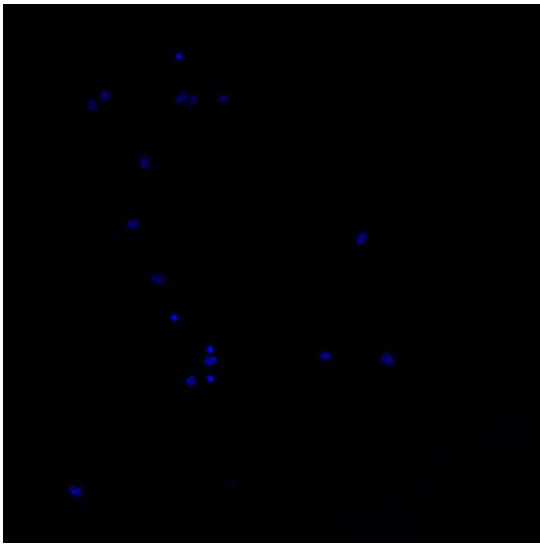
V: Viability TE: Transfection Efficiency

The neurons were prepared from E14 mouse cerebral cortex.

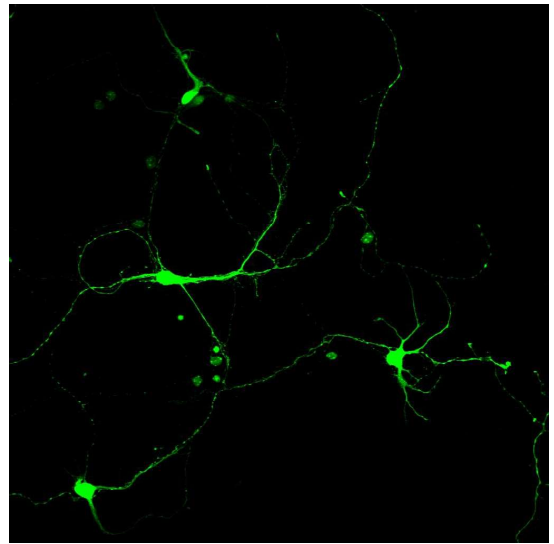
Electroporation: After 5 days in vitro (DIV) on 24-well plates



Primary Mouse Hippocampal Neurons **in Adherence**



V: 85%

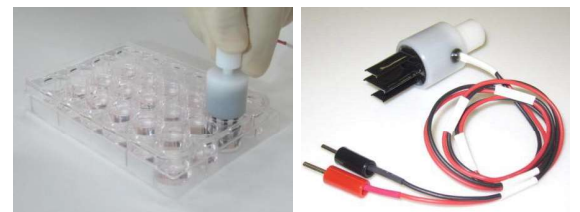


TE: 54%

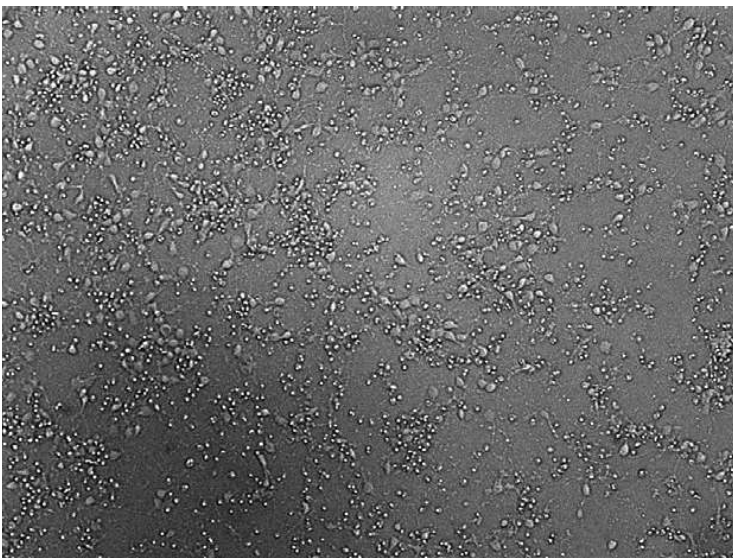
V: Viability TE: Transfection Efficiency

The neurons were prepared from E18 mouse cerebral cortex.

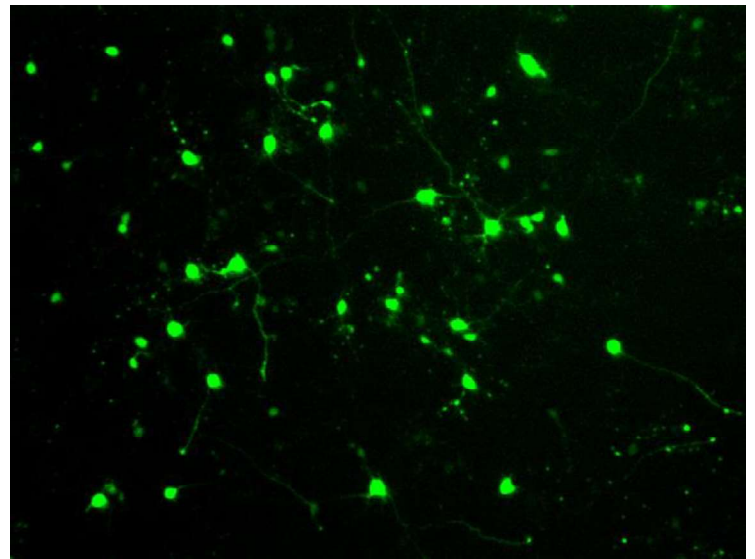
Electroporation: After 2 days in vitro (DIV) on 24-well plates



Primary Rat Cerebral Cortex Neurons **in Adherence**



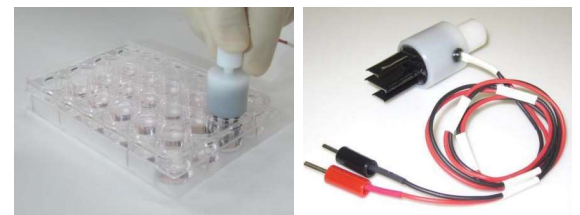
V: 70%



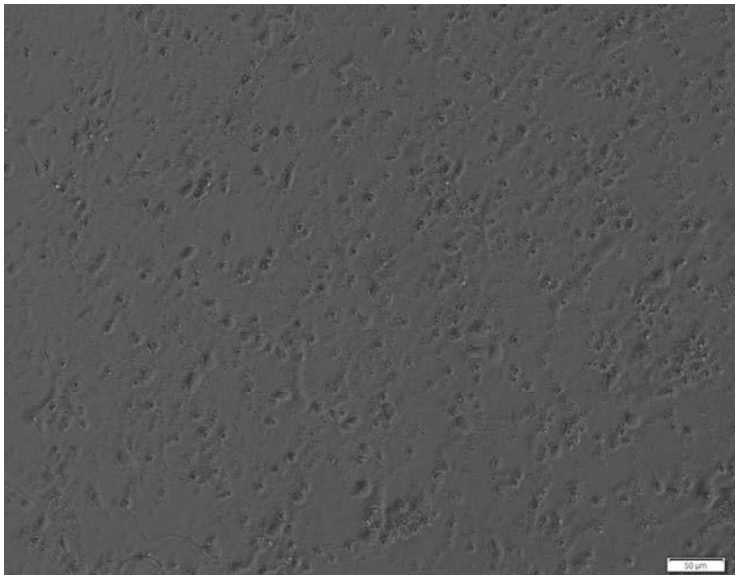
TE: 60%

V: Viability TE: Transfection Efficiency

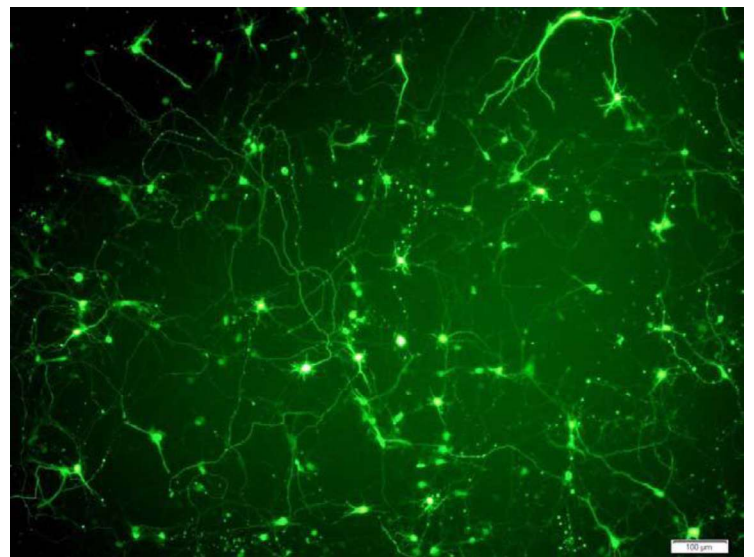
The neurons were prepared from E17 rat cerebral cortex.
Electroporation: After 2 days in vitro (DIV) on 24-well plates
Pictures: 24 hours after electroporation



Primary Rat Hippocampal Neurons **in Adherence**



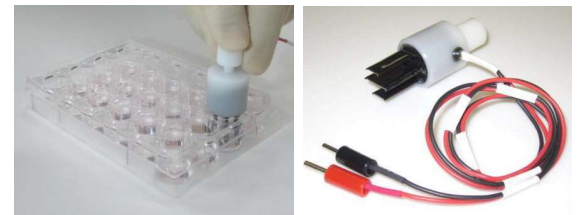
V: 70%



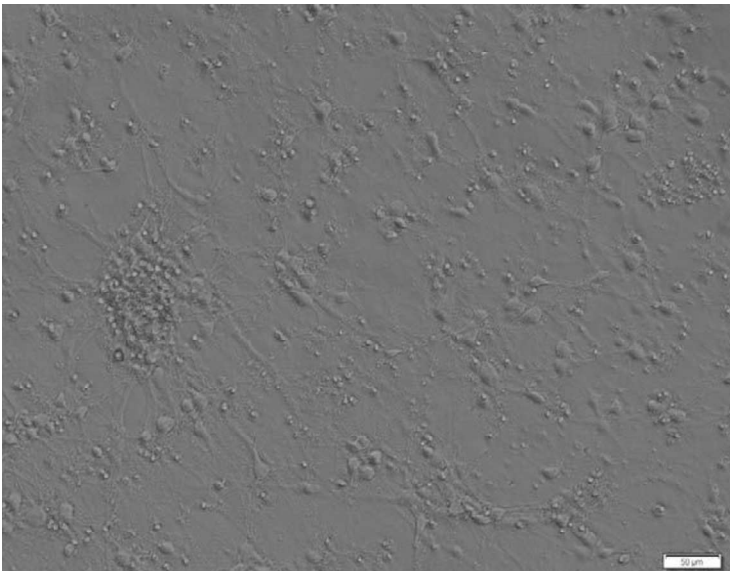
TE: 70%

V: Viability TE: Transfection Efficiency

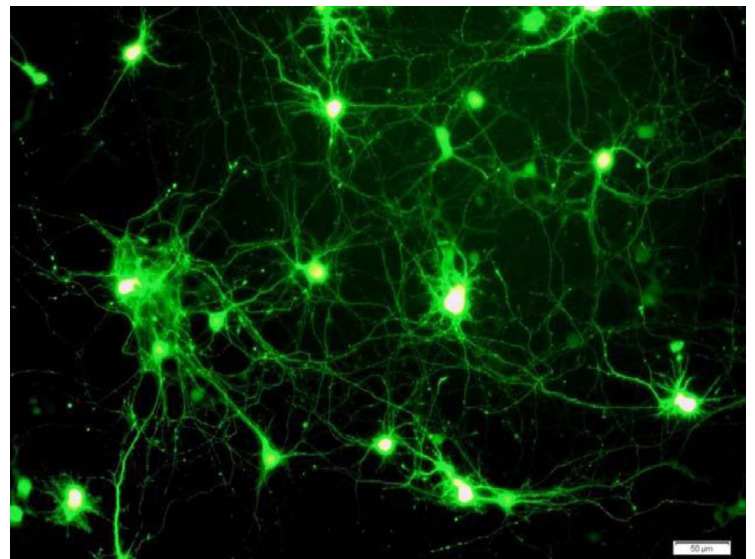
The neurons were prepared from E16 rat cerebral cortex.
Electroporation: After 2 days in vitro (DIV) on 24-well plates
Pictures: 2 days after electroporation



Primary Rat Hippocampal Neurons **in Adherence**



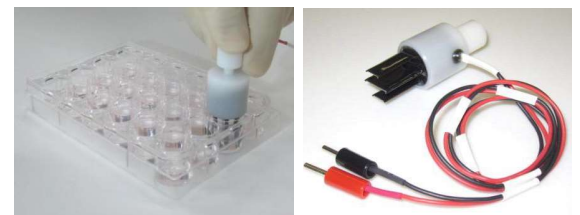
V: 70%



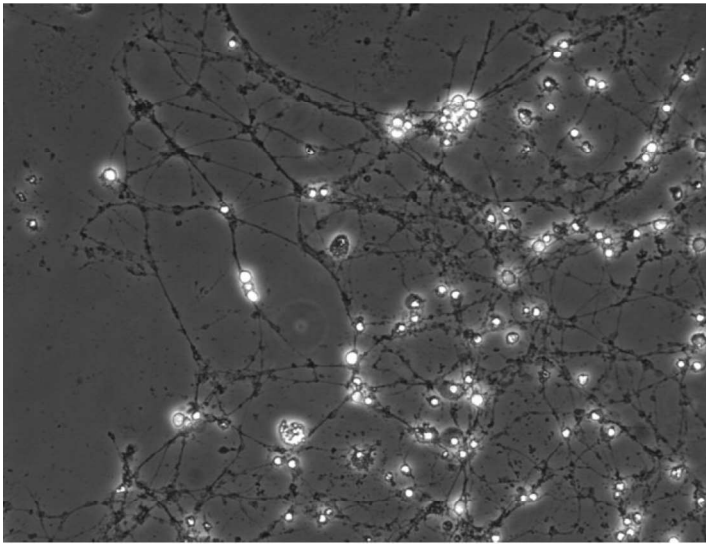
TE: 70%

V: Viability TE: Transfection Efficiency

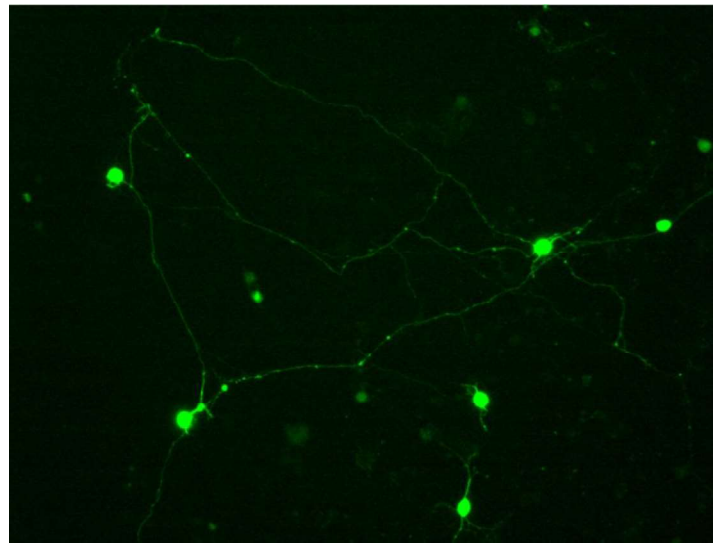
The neurons were prepared from E16 rat cerebral cortex.
Electroporation: After 2 days in vitro (DIV) on 24-well plates
Pictures: 4 days after electroporation



Primary Rat Hippocampal Neurons **in Adherence**



V: 100%

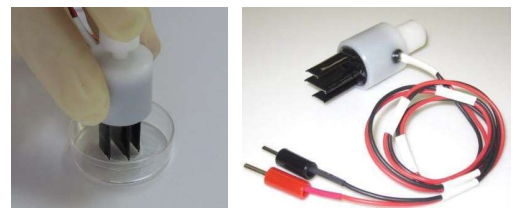


TE: 50%

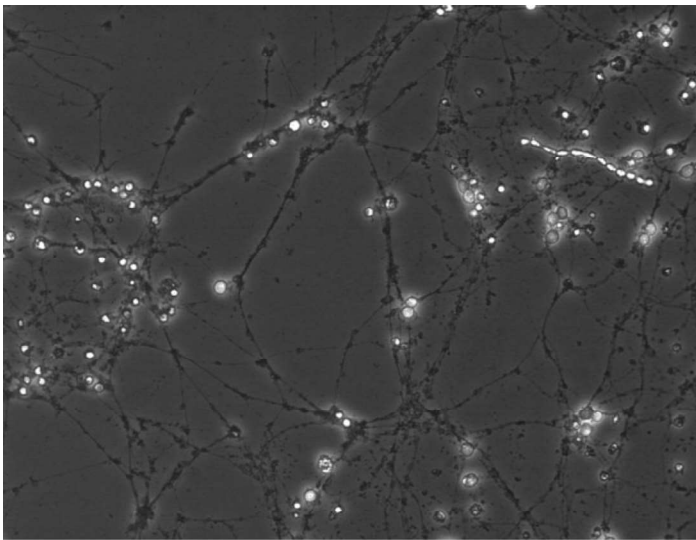
V: Viability TE: Transfection Efficiency

48 hours after electroporation

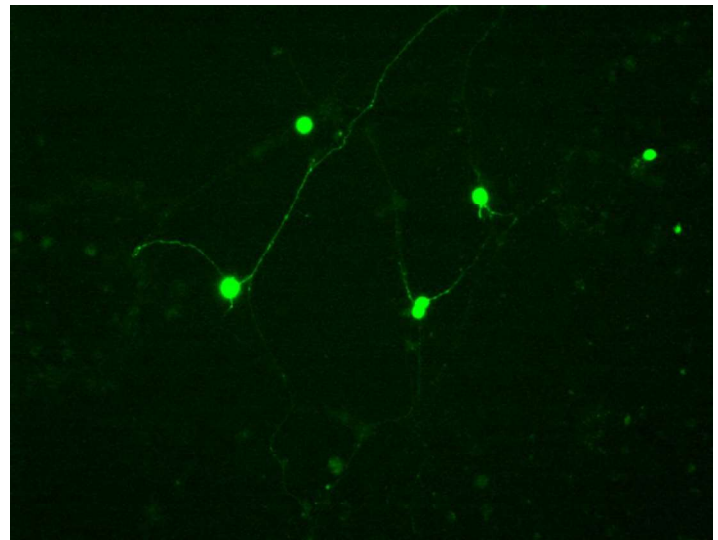
The neurons were prepared from P7 rat hippocampus.
Electroporation: After 11 DIV



Primary Rat Hippocampal Neurons **in Adherence**



V: 100%

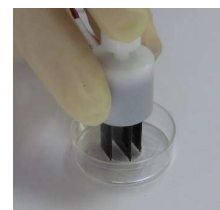


TE: 50%

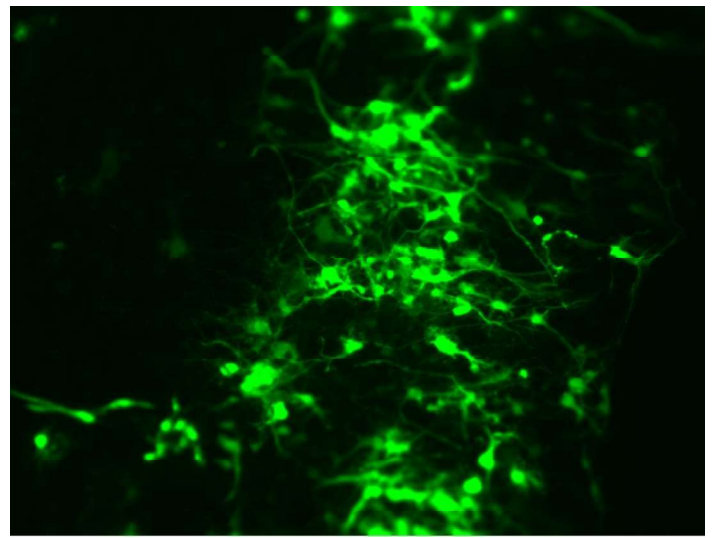
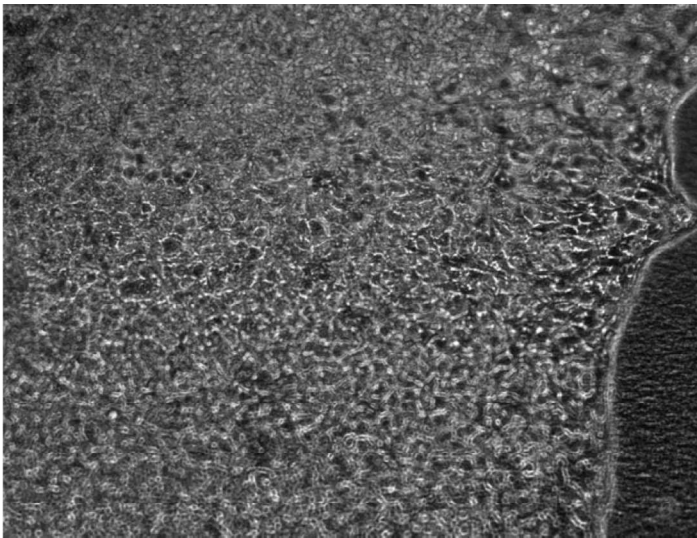
V: Viability TE: Transfection Efficiency

48 hours after electroporation

The neurons were prepared from P7 rat hippocampus.
Electroporation: After 11 DIV



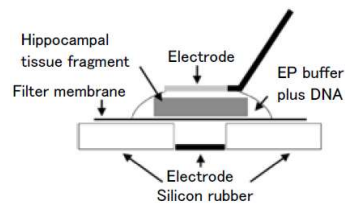
Rat Brain Slices



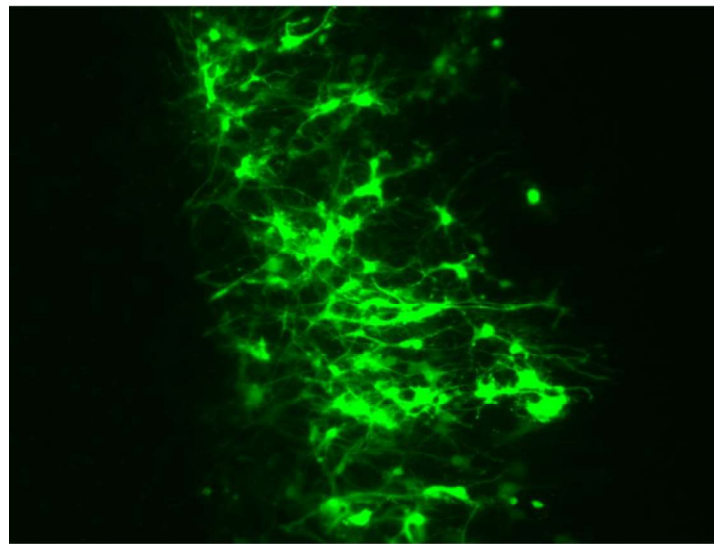
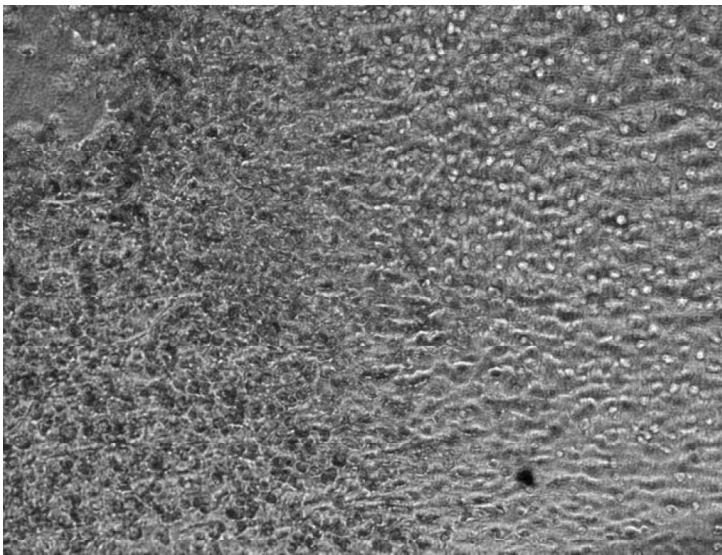
48 hours after electroporation

The neurons were prepared from P7 rat hippocampus.

Electroporation: After 11 DIV



Rat Brain Slices



48 hours after electroporation

The neurons were prepared from P7 rat hippocampus.

Electroporation: After 11 DIV

