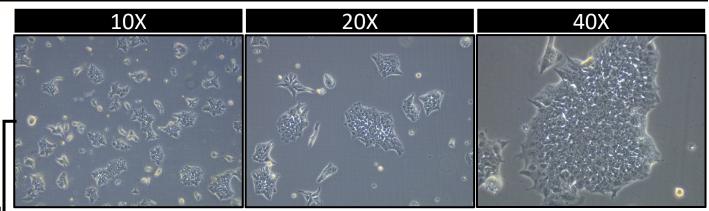


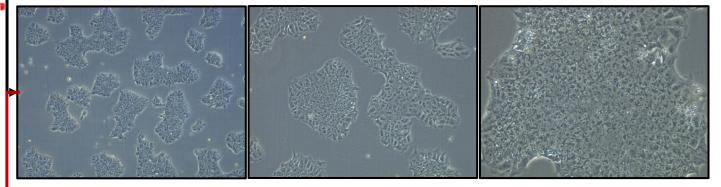
Chrono™ Senso-DM Picture Guide

Why wait?

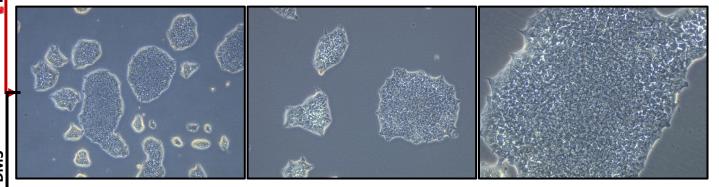
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Day 0 – Human induced pluripotent stem cells a day after being passaged exhibit a normal morphology with a smooth, phase bright edge. High-density culture with large nucleoli and high nuclear to cytoplasmic ratio.



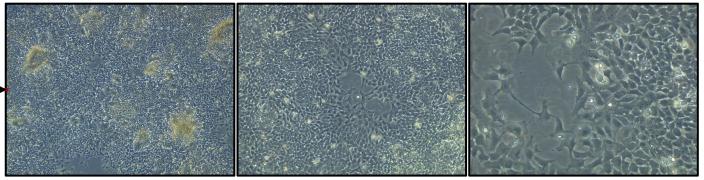
Day 1 – Ectoderm exhibits a different homogenous morphology. The hallmark phenotype is circular cells with centrally located nucleoli. Colonies are flatter with a slightly dimmer edge. Cells on the outside of colonies lay flatter but still exhibit central morphology.



Day 2 – Neuromesoderm colonies become more bright and edges are smoother. The center of colonies become increasingly more dense over the next couple of days.



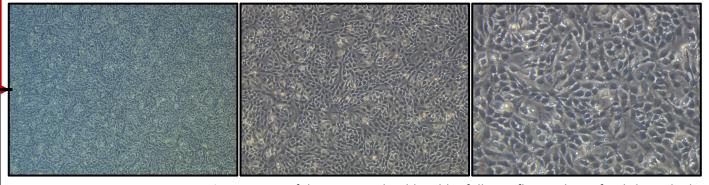
Day 4 – Neural Crest Progenitors. Neural crest progenitors begin to extensively migrate in a sheet-like mass from the edges of colonies. Centers of colonies continue to become more three-dimensional and yellow in coloration.



Day 5 – Mixed Neural Crest Population. The plate should approach full confluency at this point with approximately 250,000 neural crest/cm². Passage using Accumax™ solution for 2 minutes and gently strain with a 40 μM cell strainer into Senso-DM6 to enrich your wanted population.

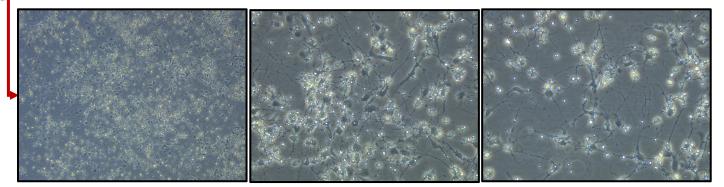
Passage into 🖢 NC-DM6

NC-DM7



Day 6 – Sensory neuron progenitors. Successful passaging should yield a fully confluent plate of tightly packed sensory neuron progenitors.

Day 7 - Sensory neurons. Axons should extend from cells as progenitors terminally differentiate into sensory neurons. Some contaminating flat cells may remain, but will die off in the next days. There may be a large amount of cell debris as some cells will die off.



Day 8 – Sensory Neurons. Axons of sensory neurons should continue to elongate and sensory neuron progenitors should continue to terminally differentiate. The number of flat cell contaminants should begin to decrease. Note the large, phase bright somas of the sensory neurons. Cells can be banked at this point or continually be matured in culture.

