

# Protocol for hPSC Differentiation to Skeletal Muscle

Figure 1. Genea Biocells Skeletal Muscle differentiation as per Caron et. Al. 2016.

## *Reagents:*

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And

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Plate/Flask Format			

## *Protocol Index*

2.

Cat #	Description

*Academic Inquiries-US and Europe:*

\_\_\_\_\_

*Japan:*

\_\_\_\_\_

*Stage I – Conversion of human PSC to myogenic precursors*

1.1. \_\_\_\_\_

1.1.1.

1.1.2.

1.1.3.

1.1.4.

1.1.5.

1.1.6.

*Note: Successful skeletal muscle differentiation has been observed in difficult cell lines plated at densities from 2500 to 10,000 cells/cm<sup>2</sup>*

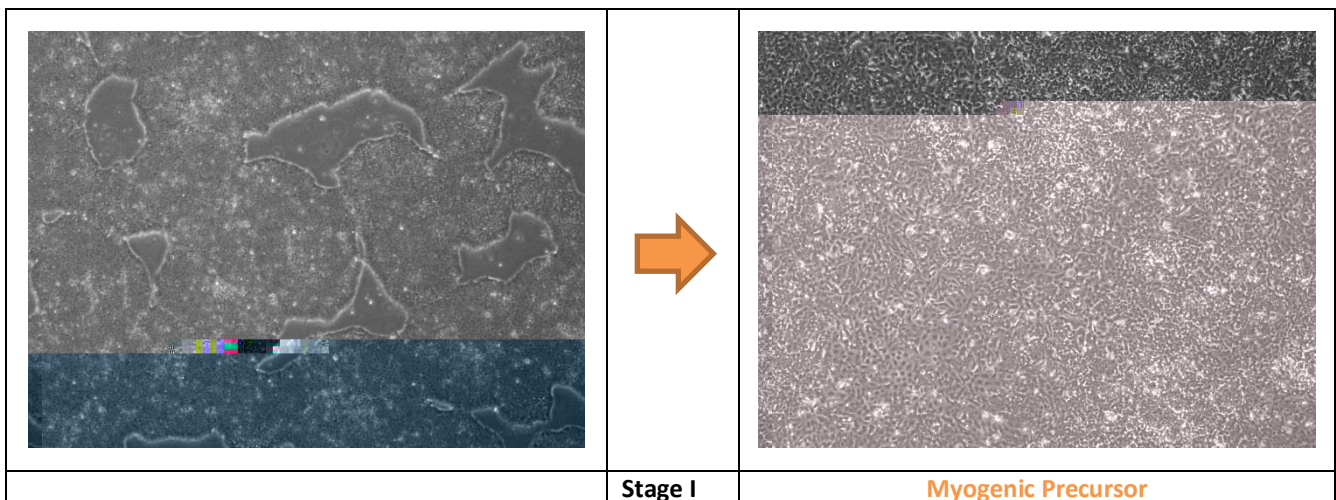
*Note: Growth formats smaller than 12 well plates are not recommended for Stage I.*

1.1.7.

1.1.8.

1.1.9.

1.2. \_\_\_\_\_



*Stage II – Conversion of Myogenic Precursors to Myoblasts*

1.3. \_\_\_\_\_

1.3.1.

1.3.2.

1.3.3.

1.3.4.

1.3.5.

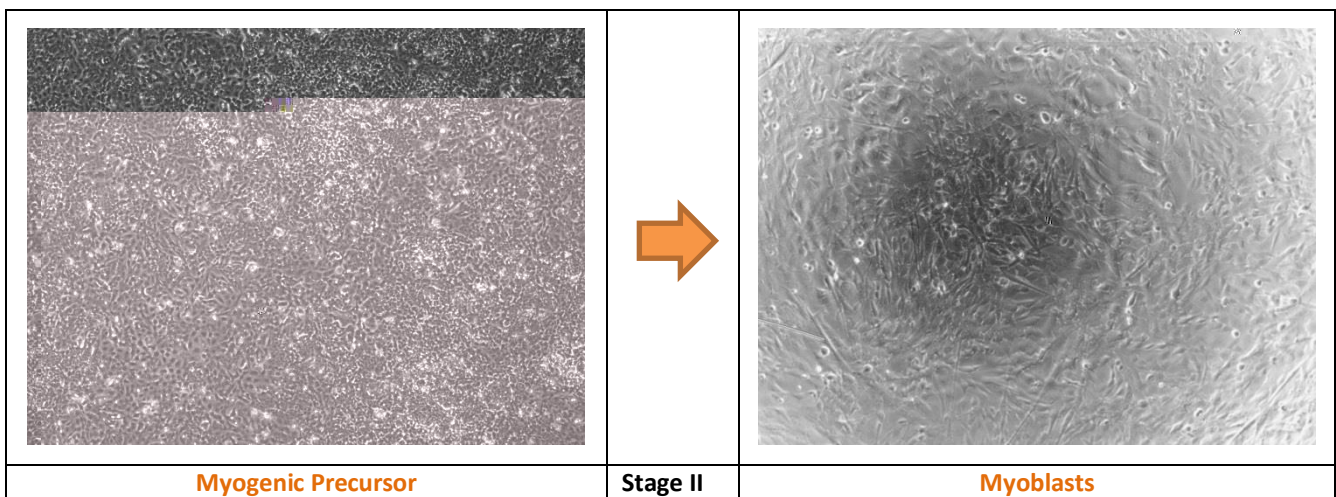
1.3.6.

1.3.7.

1.3.8.

1.3.9.

1.4. \_\_\_\_\_



*Stage III – Differentiation of Myoblasts to post mitotic Myotubes*

1.5. \_\_\_\_\_

1.5.1. \_\_\_\_\_

1.5.1.1.

*Note: Myoblasts are not dissociated at this stage; ensure the cells have formed a confluent monolayer to fully differentiate into Myotubes*

*Note: Use of Myotube/Myotube Fusion Medium will depend on end user assay requirements*

1.5.1.2.

1.5.2. \_\_\_\_\_

1.5.2.1.

1.5.2.2.

1.5.2.3.

1.5.2.4.

1.5.2.5.

1.5.2.6.

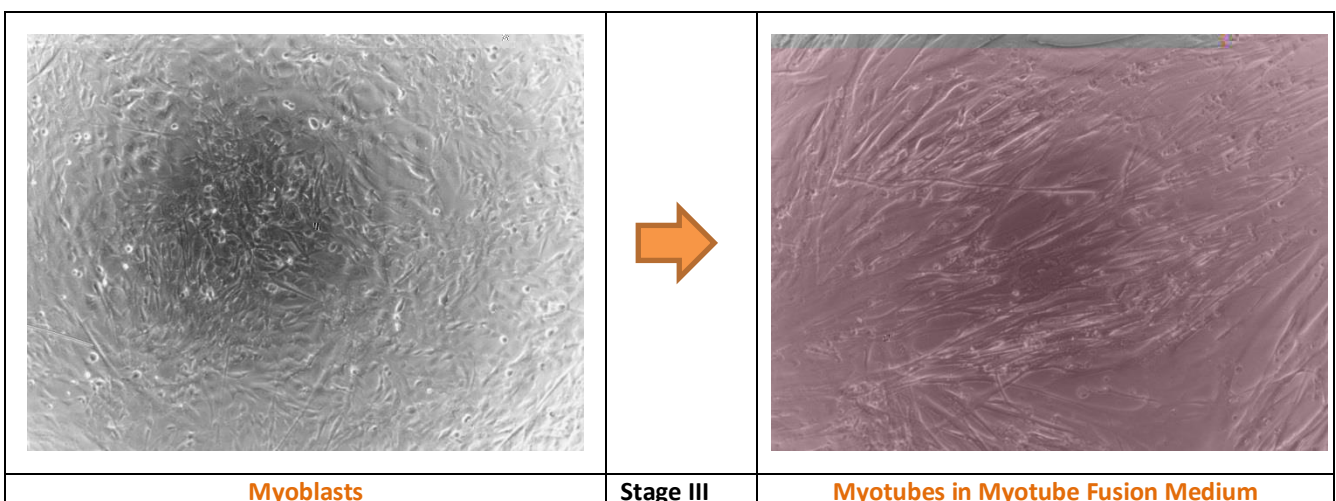
1.5.2.7.

1.5.2.8.

1.5.2.9.

1.5.2.10.

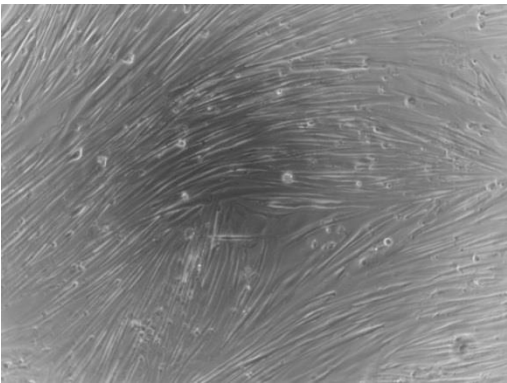
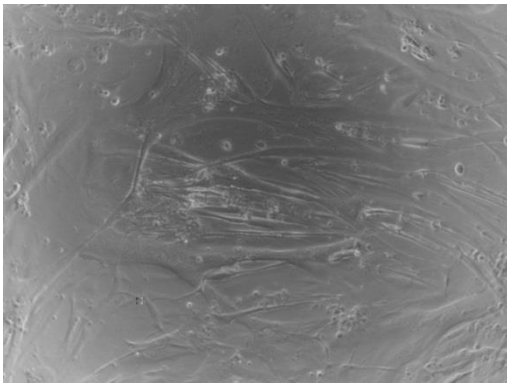
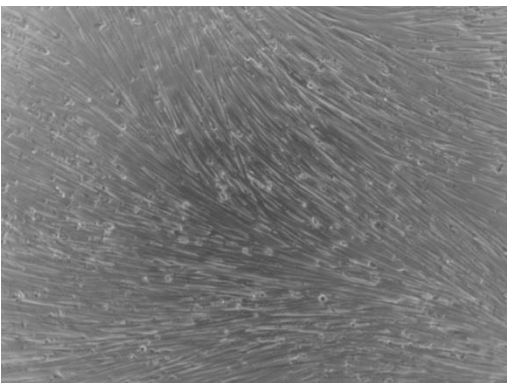
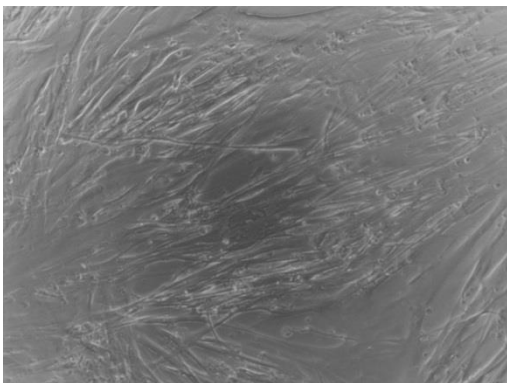
1.5.3. \_\_\_\_\_

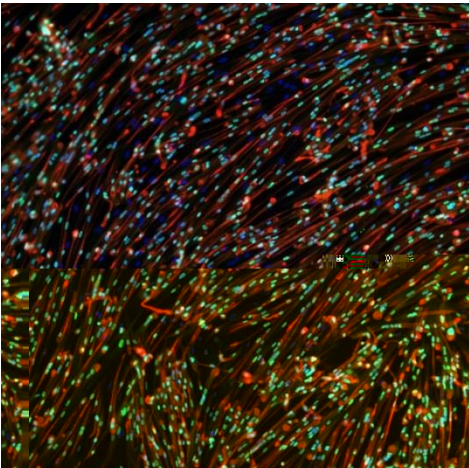
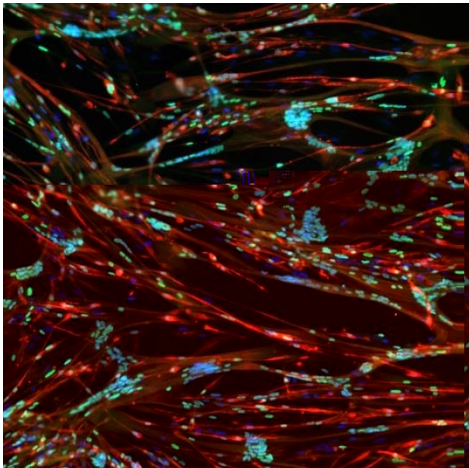


**Myoblasts**

**Stage III**

**Myotubes in Myotube Fusion Medium**

	<p><b>Cell Line 1</b></p>	
	<p><b>Cell Line 2</b></p>	
<p><b>Myotubes in SkM. Myotube Medium (SKM-03)</b></p>	<p><b>Stage 3</b></p>	<p><b>Myotubes in SkM. Myotube Fusion Medium (SKM-03+)</b></p>

	<p><b>Stage 3</b></p>	
<p><b>Myotubes in SkM. Myotube Medium (SKM-03)</b></p>	<p><b>Stage 3</b></p>	<p><b>Myotubes in SkM. Myotube Fusion Medium (SKM-03+)</b></p>