Figure 1.



400 m

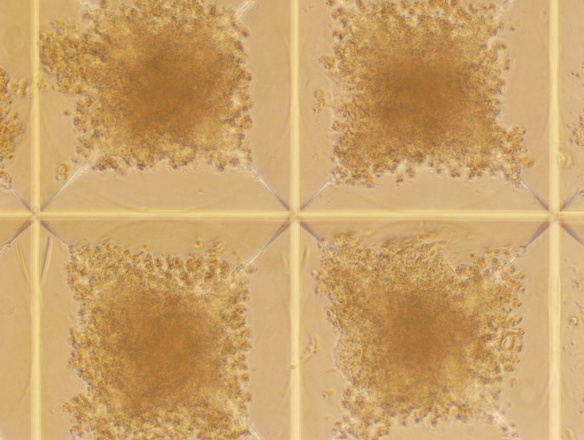
400 m

400 m

400 m

**B**

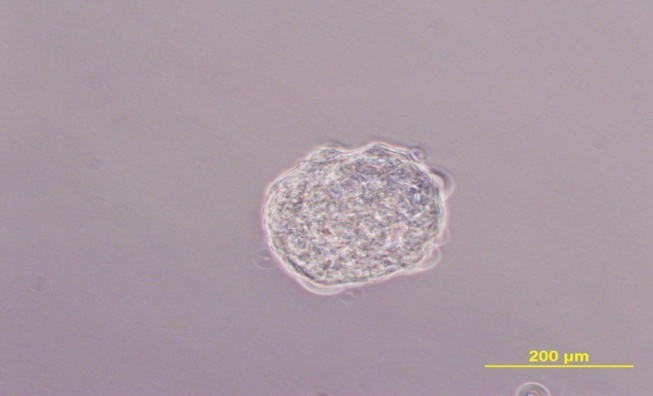
**A**

****

**D**

**C**

Figure 2.

****

**B**

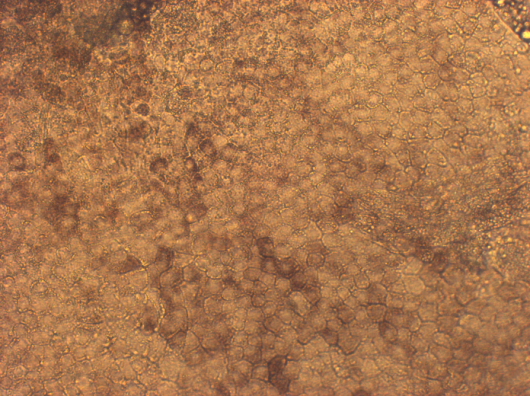
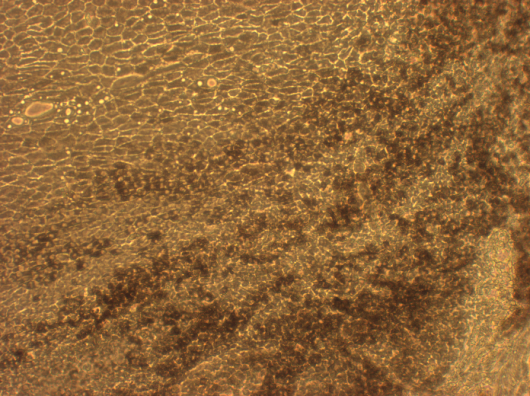
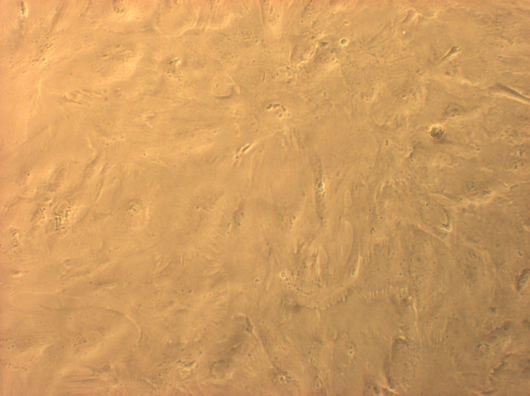
**A**

****

**D**

**C**

**Figure 3.**

****

**A**

**B**

**C**

200 m

400 m

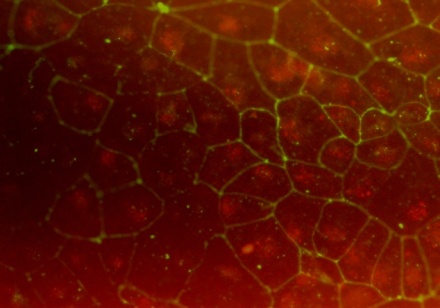
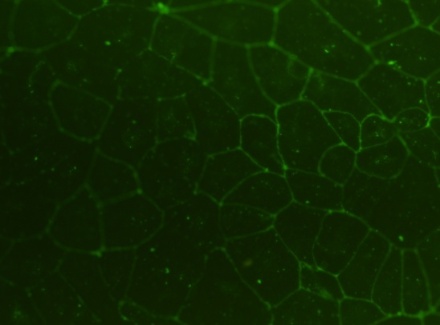
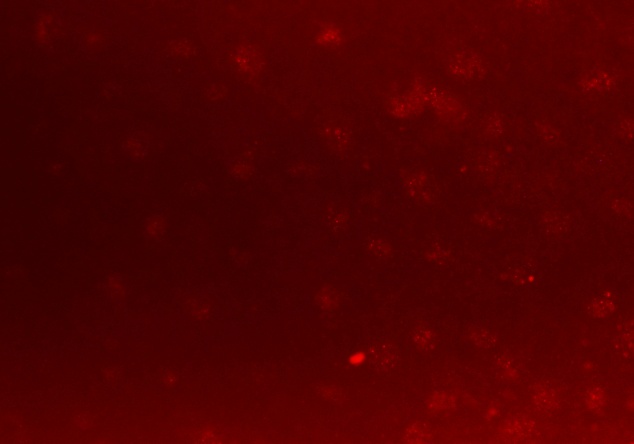
400 m

Figure 4.

**MITF/ZO1**

**ZO1**

**MITF**

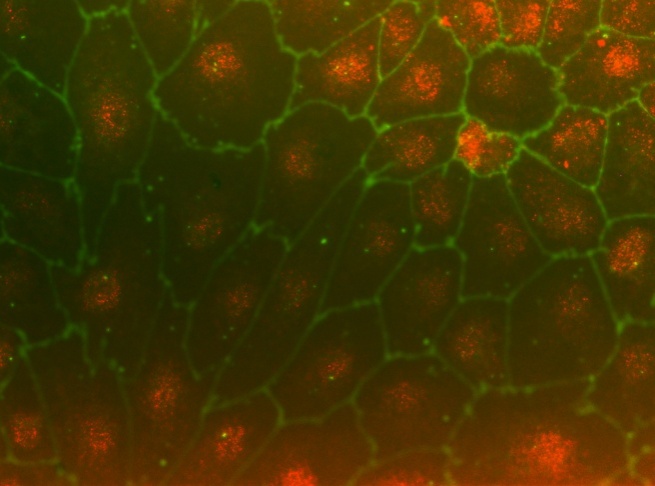
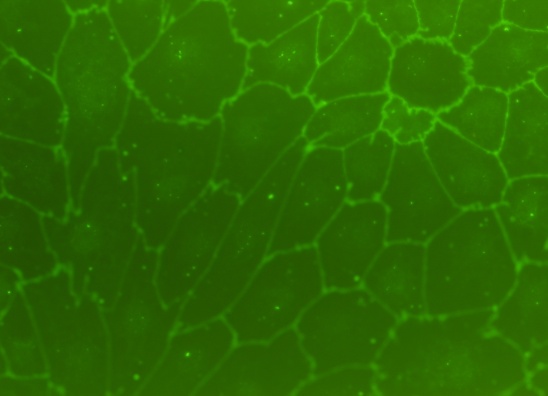
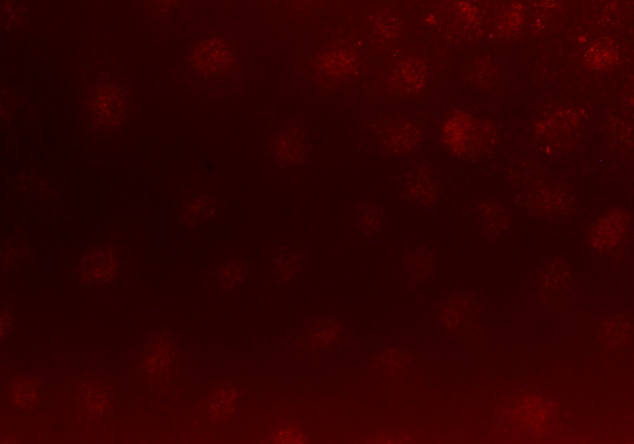
****

**500**

20 m

20 m

20 m

****

**3000**

20 m

20 m

20 m

Figure 5.

****

**Pax6**

**RX**

**MITF**

**RPE65**

**GAPDH**

**200 EB Day 6**

**200 EB Day 17**

**200 EB Day 29**

**500 EB Day 6**

**500 EB Day 17**

**500 EB Day 29**

**3K EB Day 6**

**3K EB Day 17**

**3K EB Day 29**

**15K EB Day 6**

**15K EB Day 17**

**15K EB Day 29**

**iPS P43**

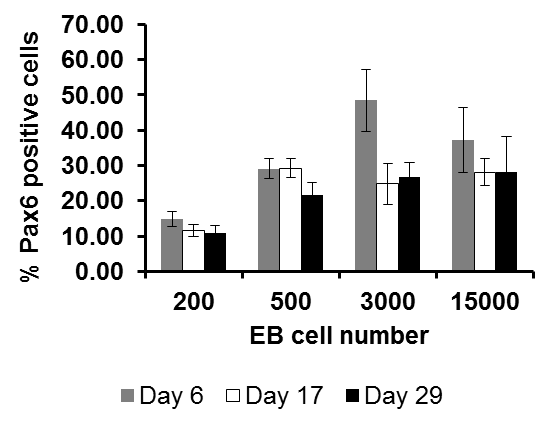
****

****

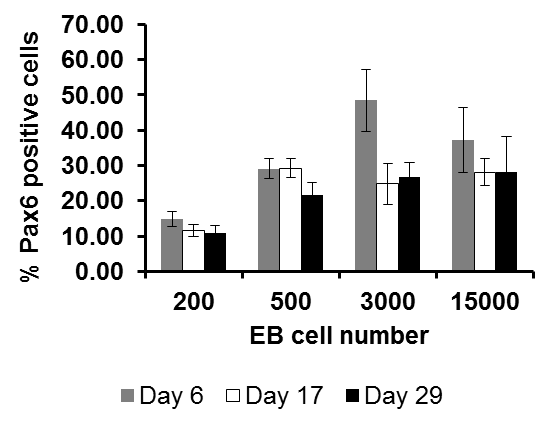
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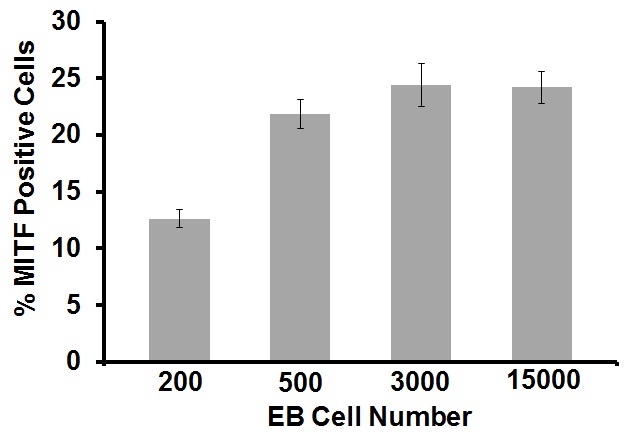
****

Figure 6.

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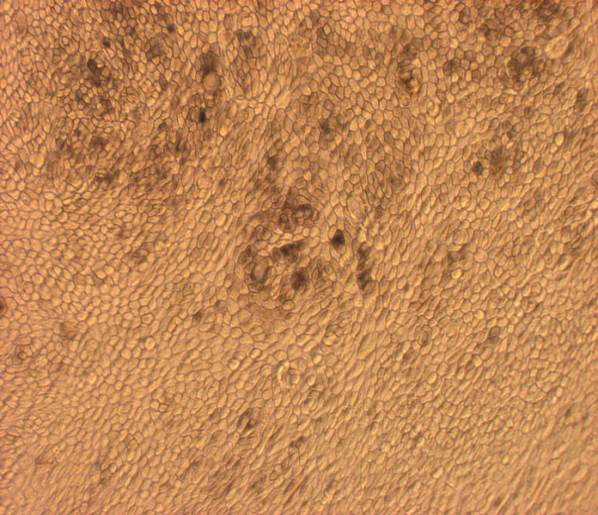
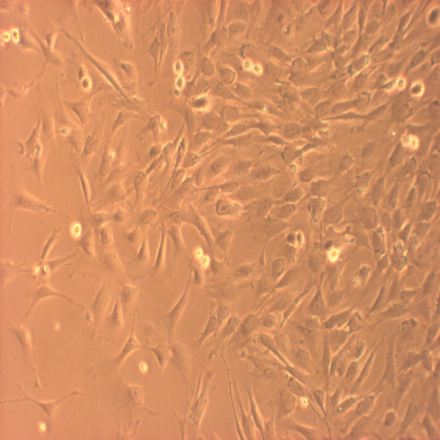
**A**

****

****

**B**

Figure 7.

****

**A**

**B**

**C**

400 m

400 m

400 m