

Supplementary Materials

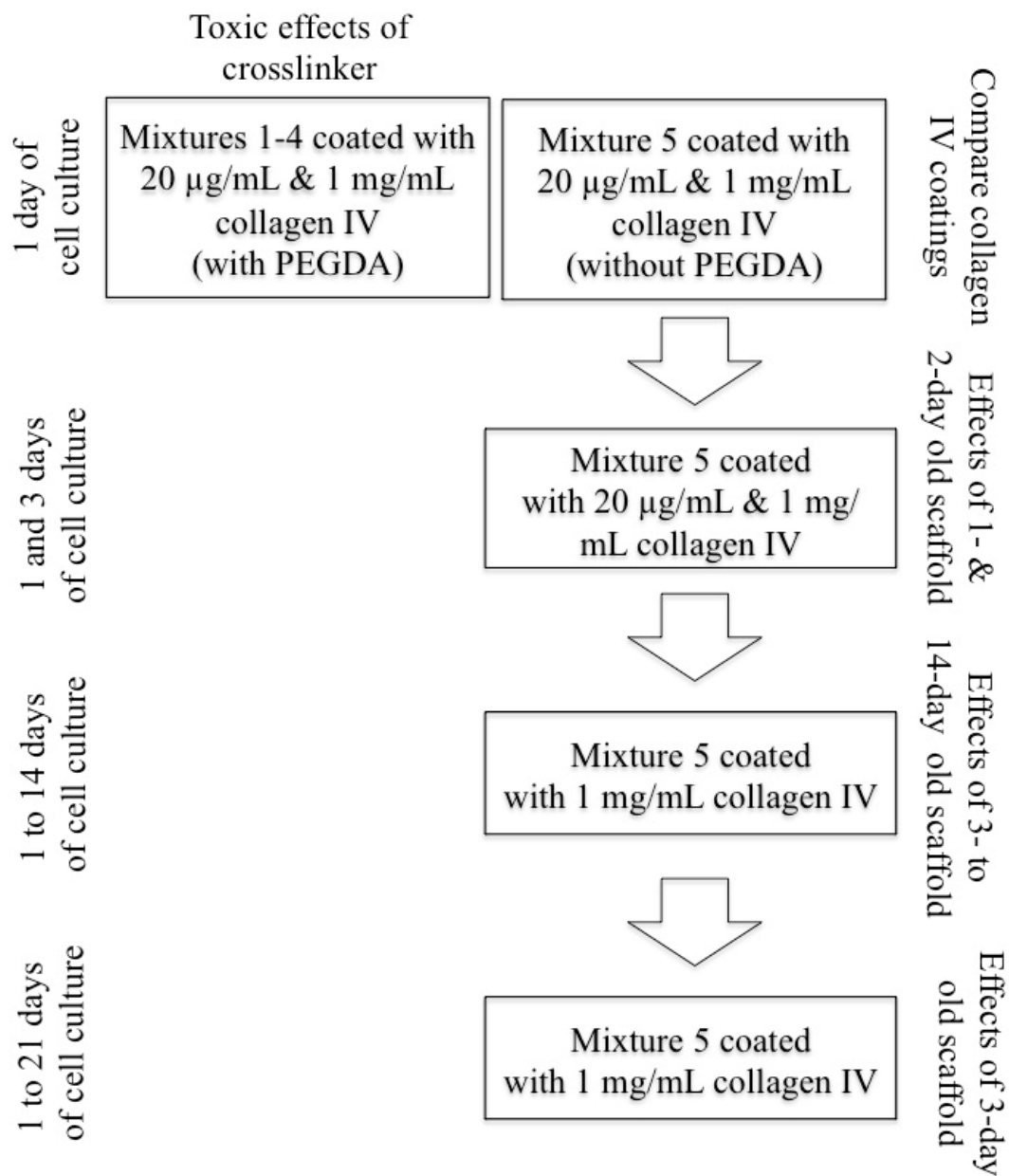
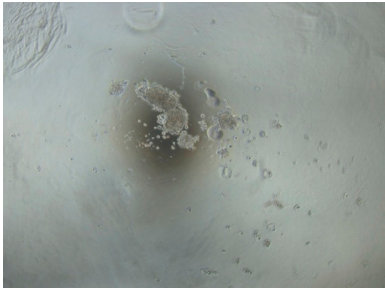
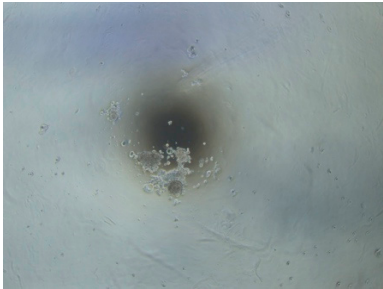
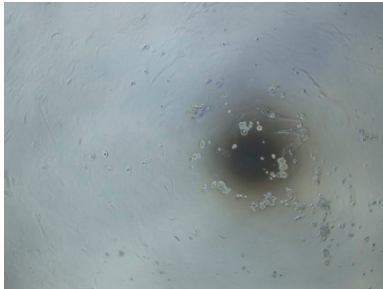
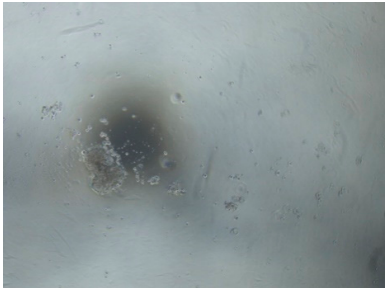
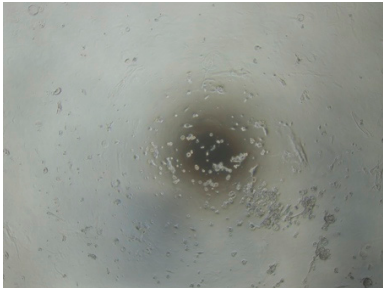
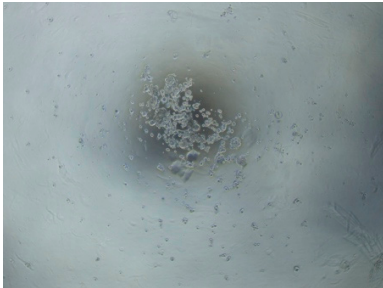
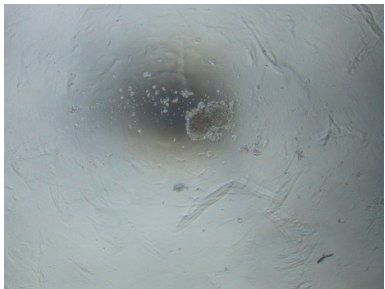
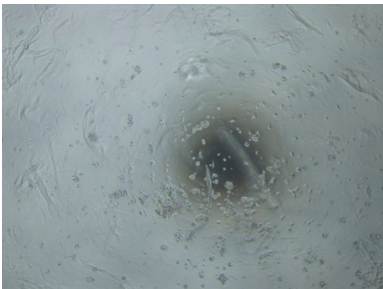
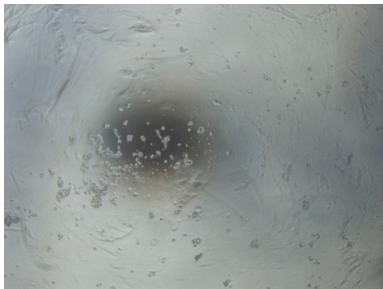


Figure S1. Workflow of experiments.

	Uncoated mixture	Coated mixture with 20 $\mu\text{g/mL}$ collagen IV	Coated mixture with 1 mg/mL collagen IV
Mixture 1			
Mixture 2			
Mixture 3			

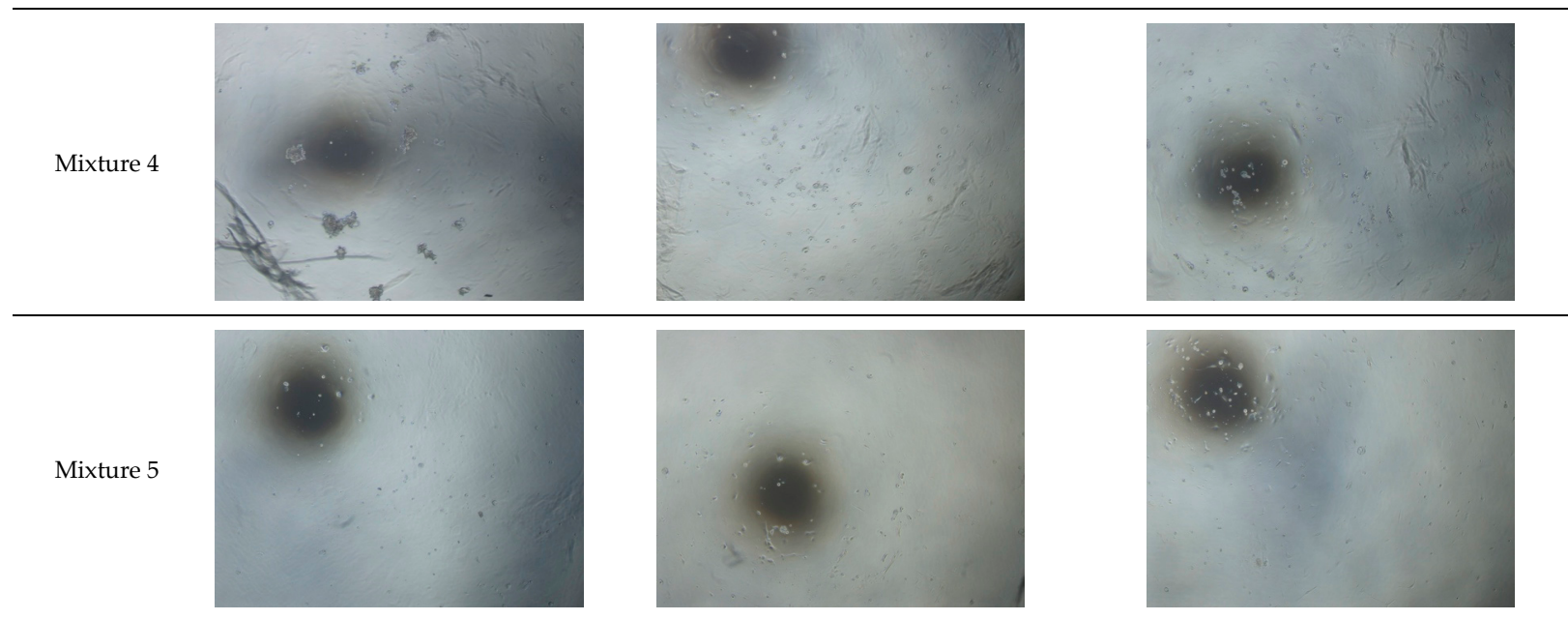

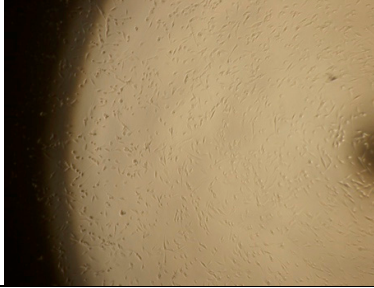
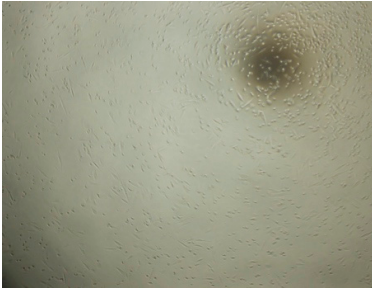

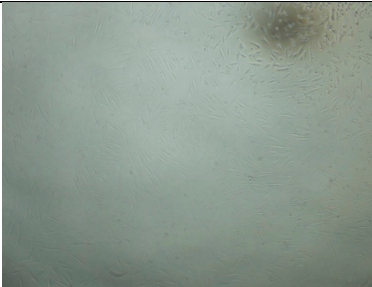
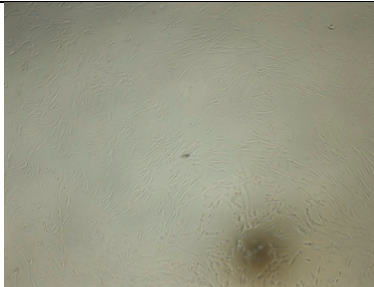

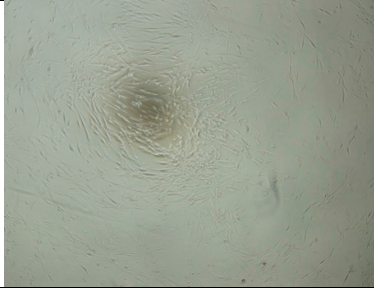

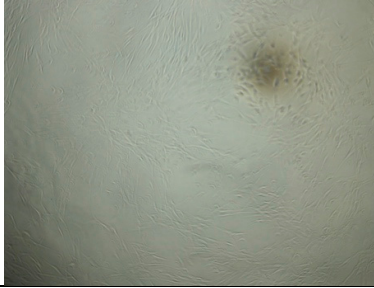


Figure S2. The light microscopic images (4 \times magnification) of 1-day old culture of human OMECs on five different mixtures of HA scaffold uncoated and coated with 1 mg/mL and 20 μ g/mL collagen IV.

Scaffold age	Culture age	Control *	Coated mixture 5 with 1 mg/mL collagen IV
3 days			
	Day 1		
	Day 3		
	Day 7		
	Day 10		
	Day 14		

7 days

Day 1



Day 3



Day 7



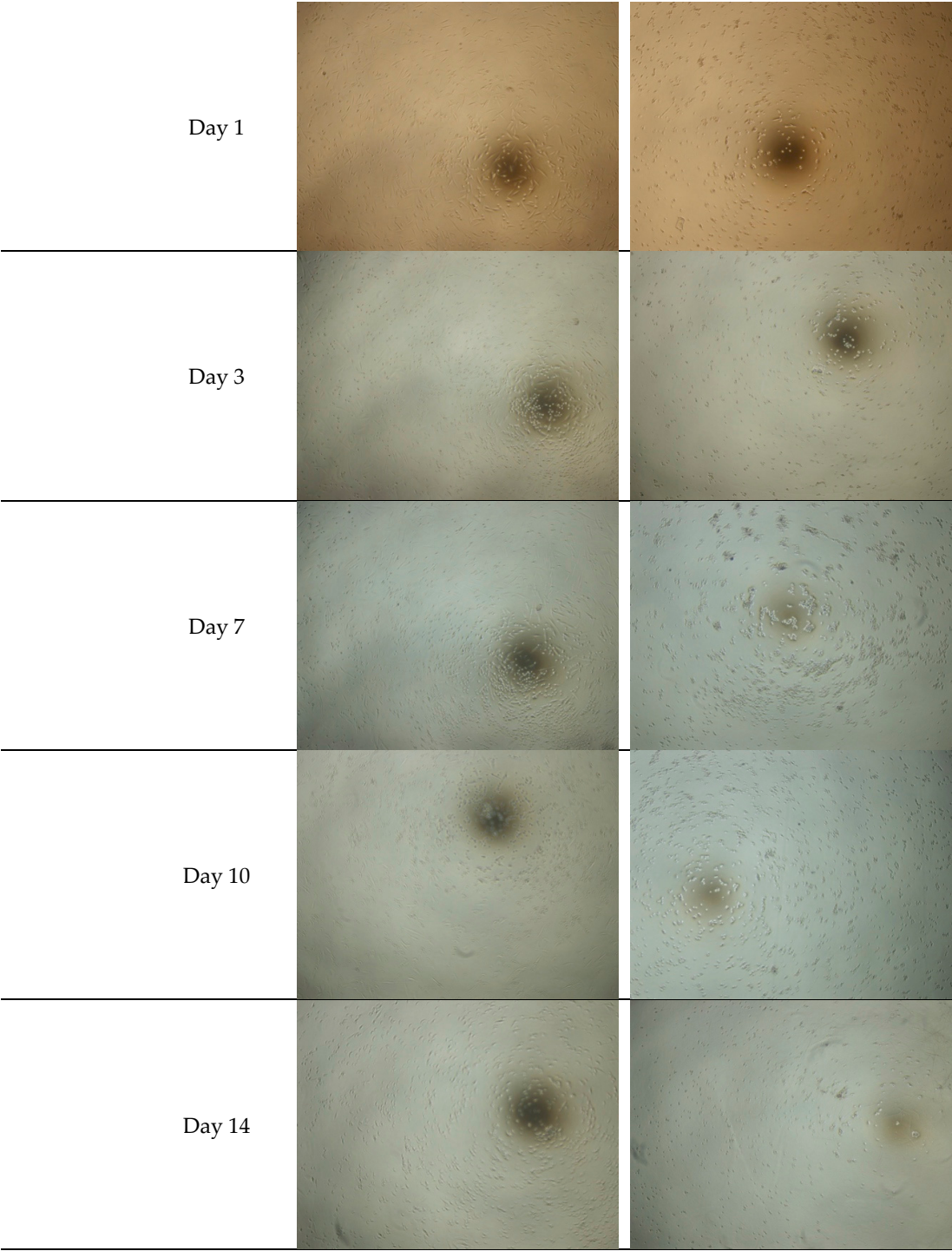
Day 10



Day 14



10 days



14 days

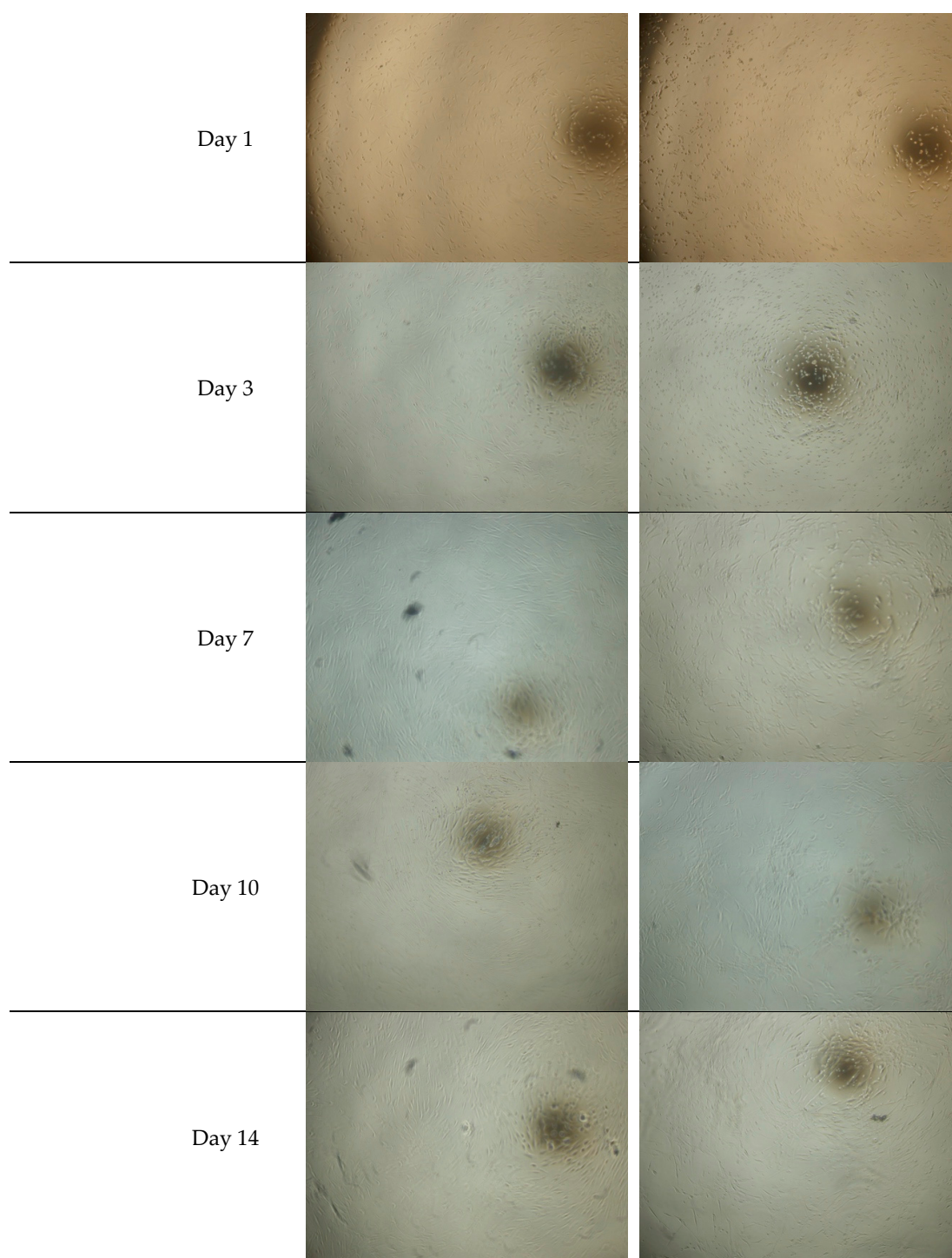
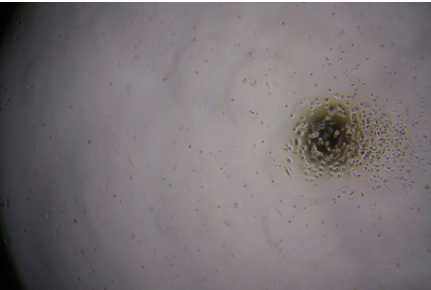
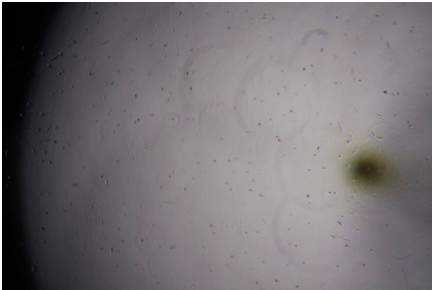
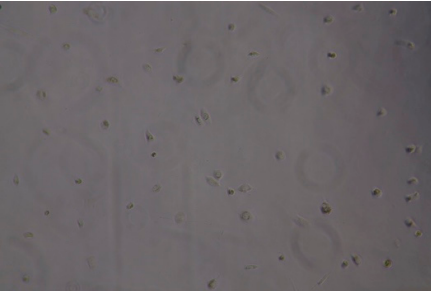
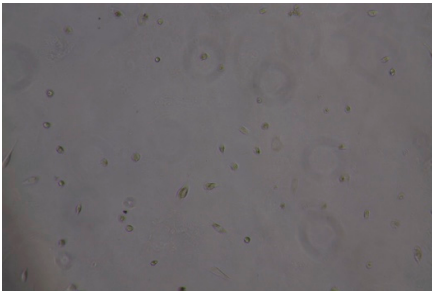
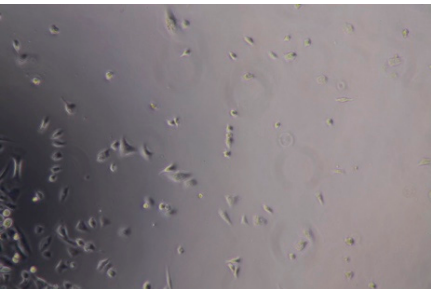
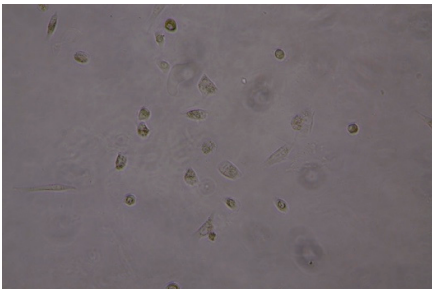
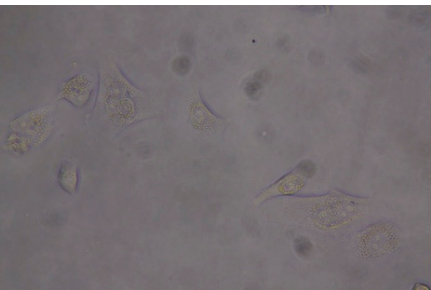
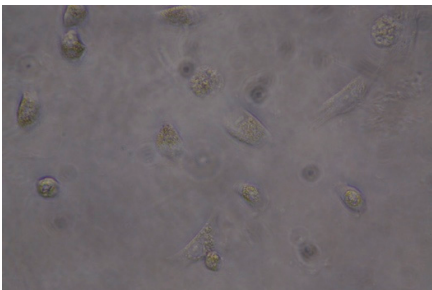
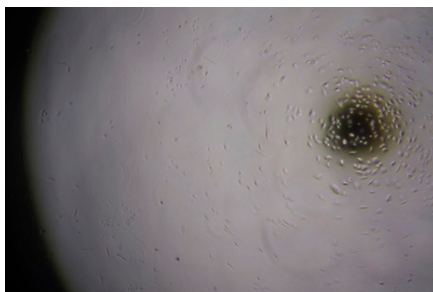


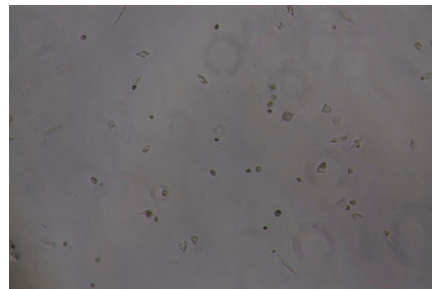
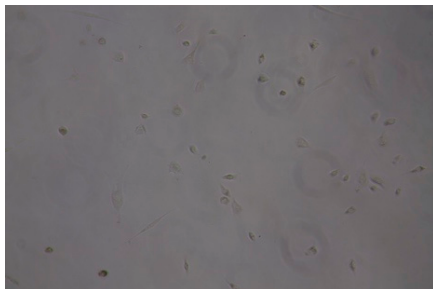
Figure S3. The light microscopic images (4× magnification) of human OMECs after 1, 3, 7, 10 and 14 days of culture on HA scaffolds dried for 3, 7, 10 or 14 days and coated with 1 mg/mL collagen IV. * Cultured human OMECs on coated plastic 24-well-plate with 1 mg/mL collagen IV.

Culture age	Magnification	Control *	Coated mixture 5 with 1 mg/mL collagen IV
1 day	4×		
	10×		
	20×		
	40×		
3 days			

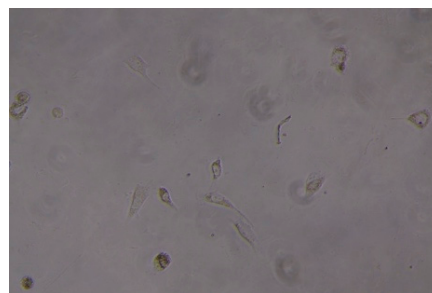
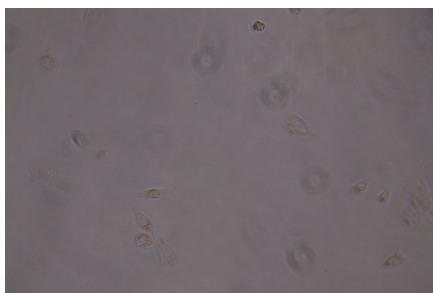
4×



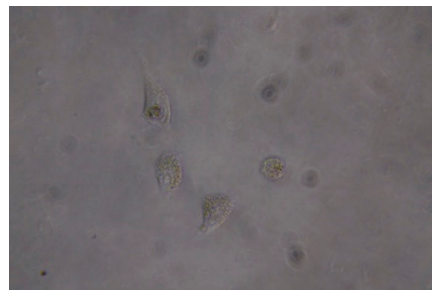
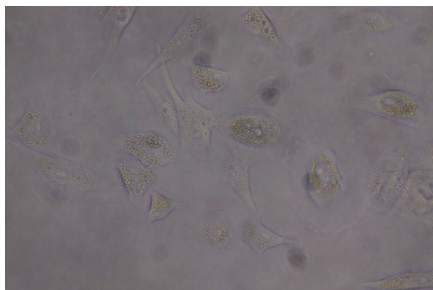
10×



20×

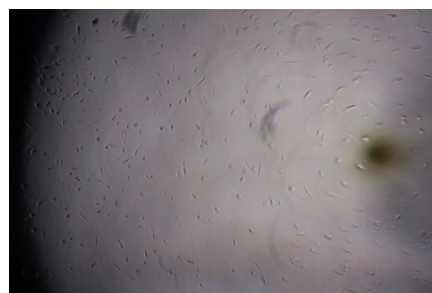
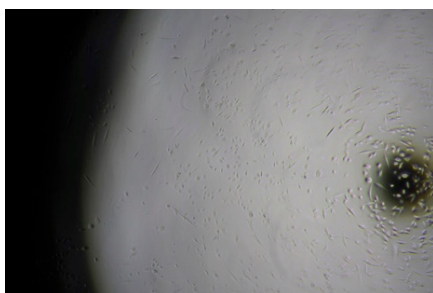


40×

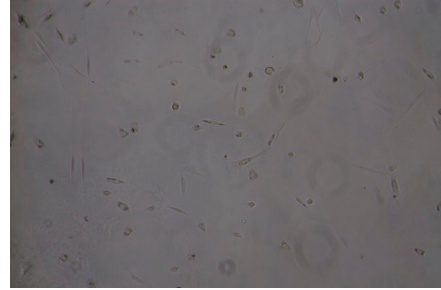
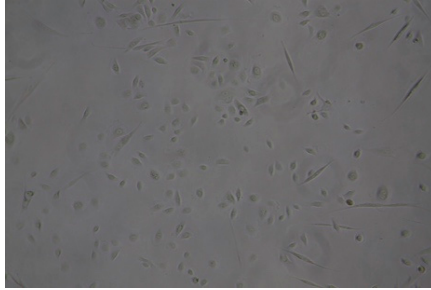


7 days

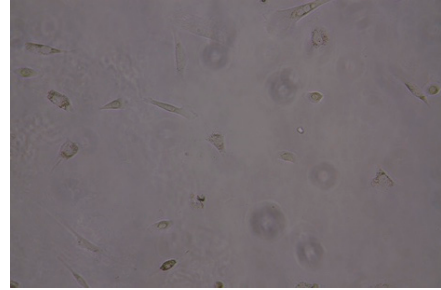
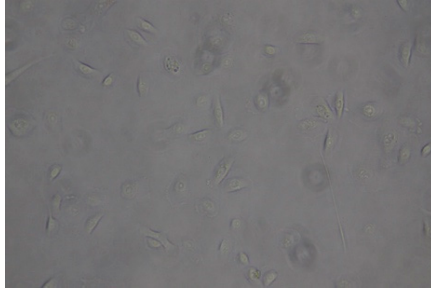
4×



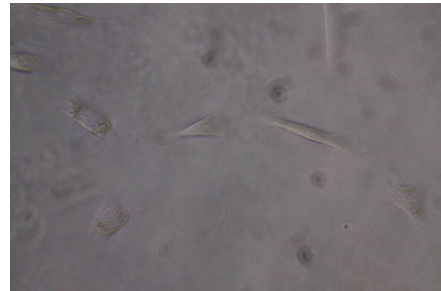
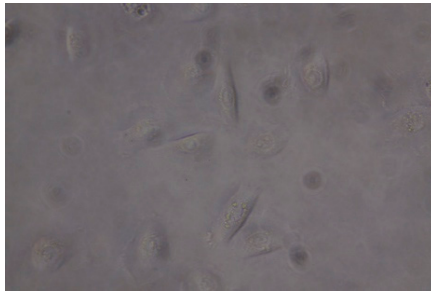
10×



20×

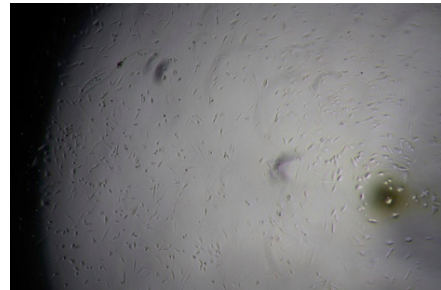
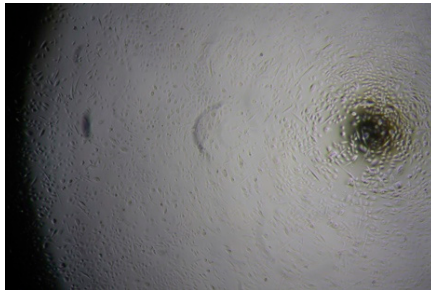


40×

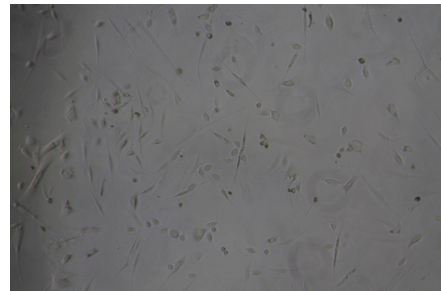
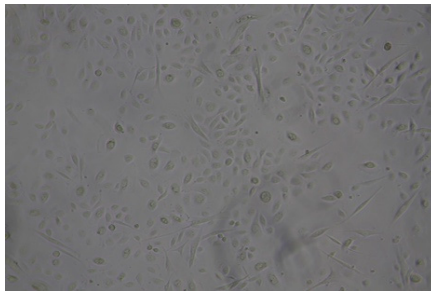


10 days

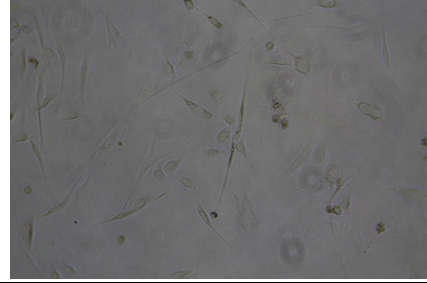
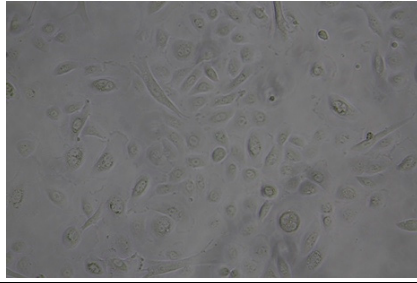
4×



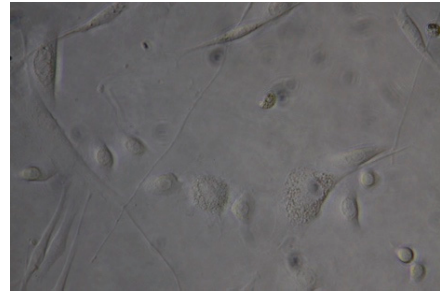
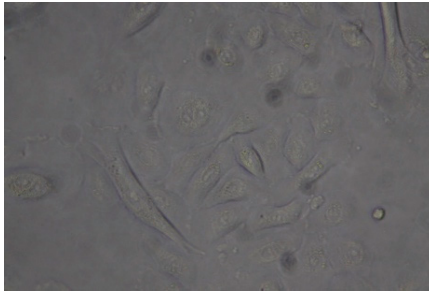
10×



20×

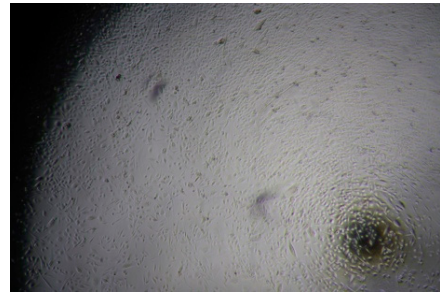
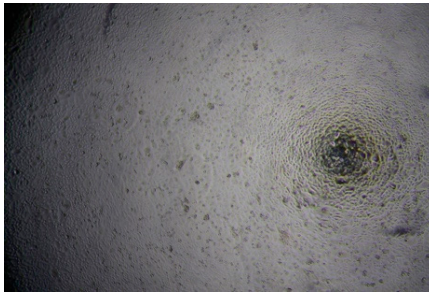


40×

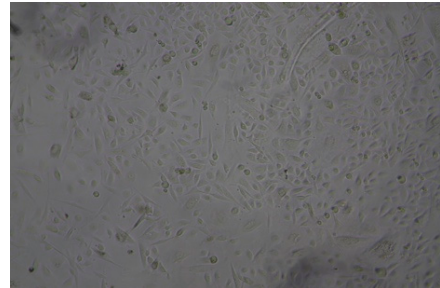
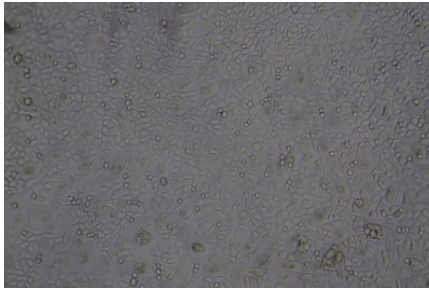


14 days

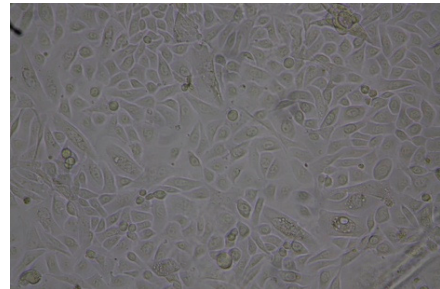
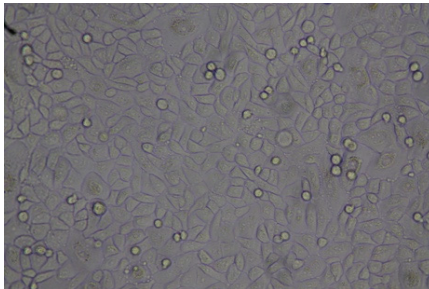
4×



10×



20×



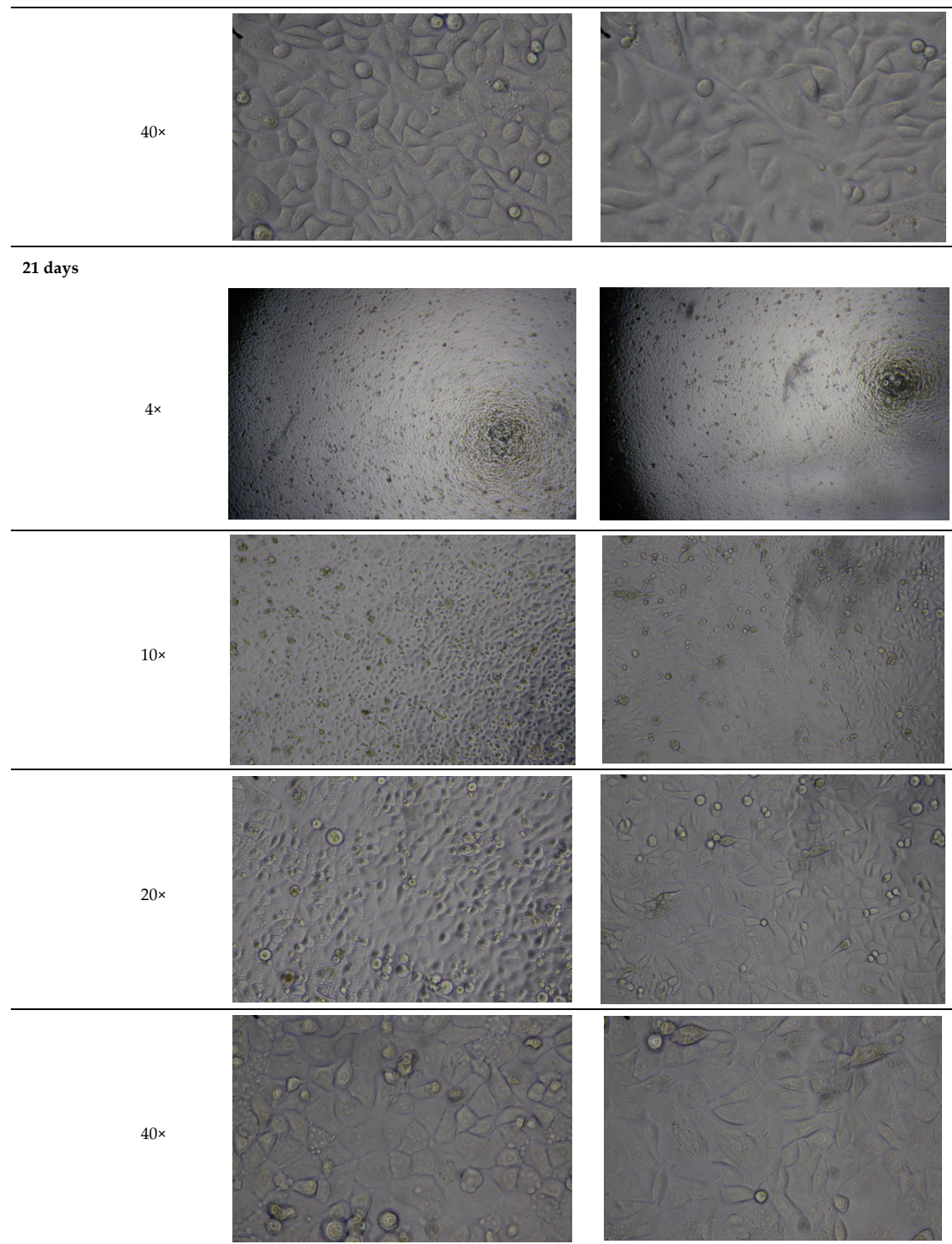


Figure S4. The light microscopic images (4×, 10×, 20× and 40× magnification) of human OMECs after 1, 3, 7, 10, 14 and 21 days of culture on HA scaffold dried for 3 days and coated with 1 mg/mL collagen IV. * Cultured human OMECs on coated plastic 24-well-plate with 1 mg/mL collagen IV.