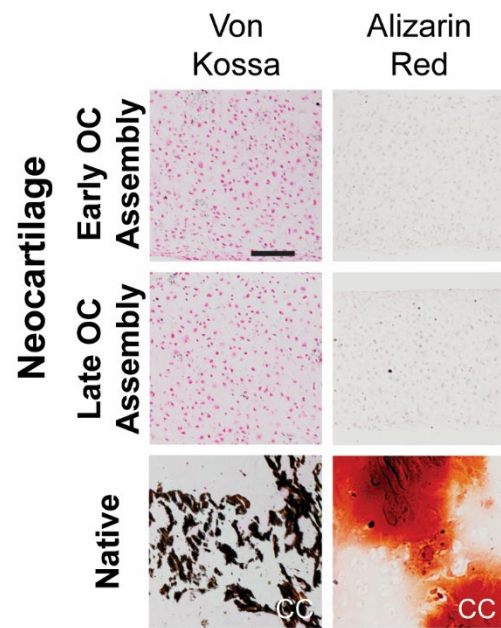
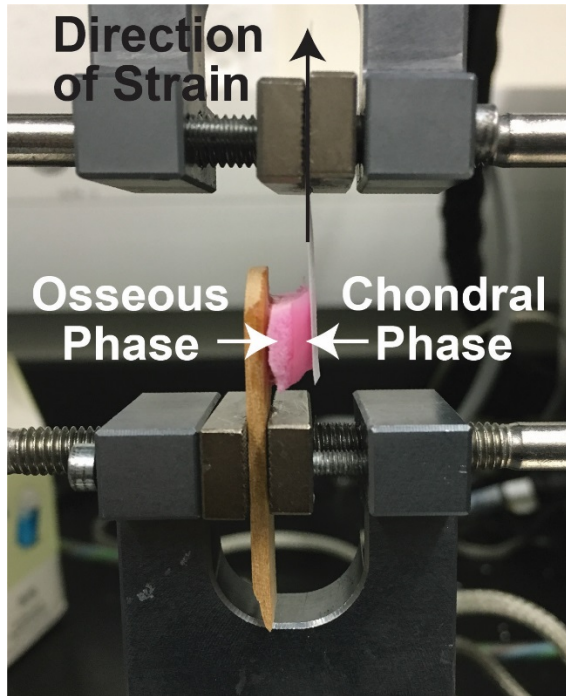




Supplementary Figure 1: Von Kossa and alizarin red staining. Neocartilage removed from the ceramics in both OC assembly groups did not stain with von Kossa or alizarin red. Native ovine costal cartilage (CC) is shown as control tissue. Scale bar represents 100 μ m.



Supplementary Figure 2: Osteochondral lap shear testing set-up. The ceramic side of full-thickness osteochondral samples were glued to flat, wooden popsicle sticks to provide an immobile anchor. A paper tab was glued to the superficial surface of the neocartilage of the osteochondral samples. The wooden stick and paper tab were loaded into offset grips in the mechanical testing system such that the neocartilage-ceramic interface was parallel to the direction of strain. The sample was pulled apart at a rate of 1 mm/min until failure.